



KL
(DEEMED TO BE UNIVERSITY)



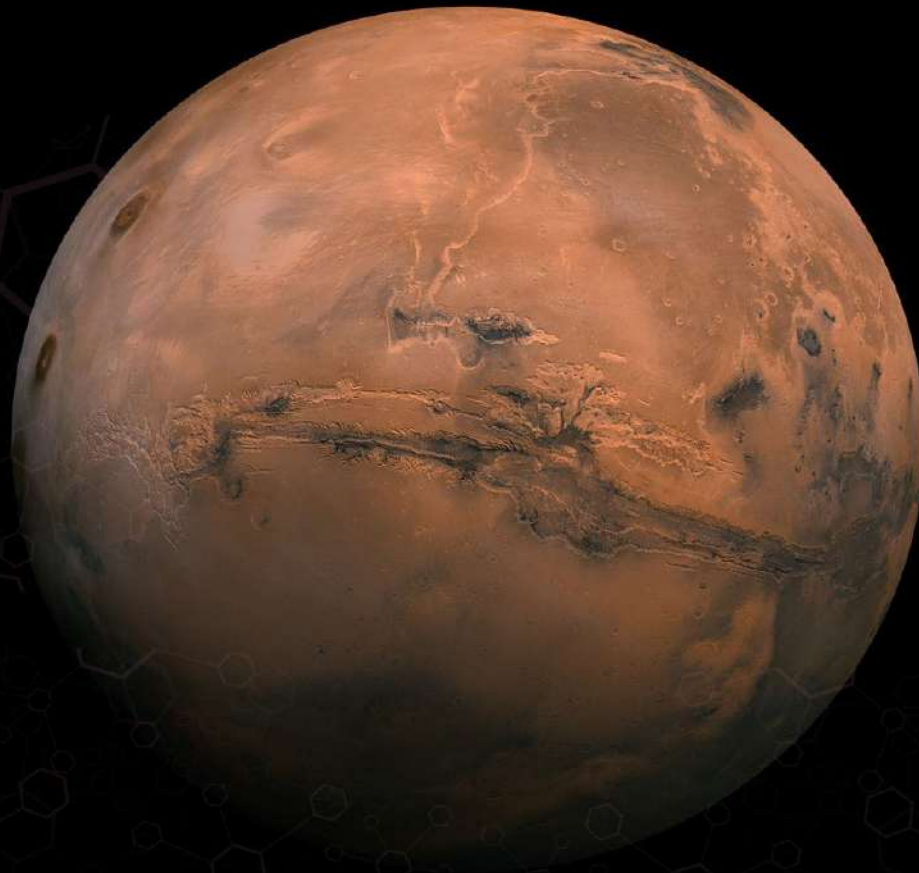
KLH
(DEEMED TO BE UNIVERSITY)



Edition 8

KL HORIZON

The conglomeration of everything you have in you!



THE BACKUP

- Unraveling the Red Planet -

March 2021



Vachas

Imparting education for life and not for living - #WeAreFutureReady - KL University

KL Deemed to be university was established in 1980-81, as KL College of Engineering, which was upgraded to KL College of Engineering Autonomous in 2006 by UGC, and was declared as a Deemed to be University in 2009 by UGC, MHRD Govt. of India.

The Institute remains indebted to leadership of our late co-founder Er. Koneru Lakshmaiah, and our Founder Er. Koneru Satyanarayana, both of whose vision has helped in creating this abode of learning, which has emerged as one of the elite institutes of the nation.

The Torchbearer Of Knowledge

Koneru Lakshmaiah Education Foundation, well-known as K L University is a deemed University located in Andhra Pradesh, India. The University has 54 programs, 23 academic departments comprising 6 schools, emphasising on scientific and technological research. Situated in a spacious 100-acre campus on the banks of Buckingham Canal of river Krishna, 8 kilometres from Vijayawada it is a virtual paradise of pristine nature and idyllic beauty. The campus has been aptly named "Green Fields" and the splendid avenue of trees and gardens bear testimony for its commitment towards protecting ecology and the environment. The campus is ideally suited for pursuit of knowledge.

Rich legacy

The genesis traces its roots with the establishment of the Koneru Lakshmalah Charities as a trust in the year 1980 and started KL College of Engineering. The college has attained autonomous status in the year 2006 and was recognised as Deemed to be University in the year 2009 and grabbed a rich legacy spanning over four decades. The credit behind its formation goes to the visionary leadership of Er. Koneru Satyanarayana. The institution was accredited with "A++" grade in the year 2018. UGC, MHRD granted Category I status to the University. The institution is recognised by the All-India Council for Technical Education. In the past forty years, it has created its niche in education and evolved as one of India's premium centres of learning.

Centres of Excellence

The University has established several Centres of Excellence to promote Research Culture among the faculty and students. The state-of-the-art infrastructure and sophisticated instruments paved way for getting good number of sponsored Research projects, publications, and patents. The outcomes



Er. Koneru Satyanarayana

from these Centres of Excellence are contributing significantly for solving the societal problems. The present h-index of the University stands at 52. The University has also established an Innovation and Incubation Centre, which has earned a reputation for encouraging entrepreneurship culture among young minds.

Transforming lives

The University believes in, providing education is not merely for livelihood but has a much broader and humane approach. It is transforming the lives of its students and society at large by providing 360 degree (all-round) development of its students. The Alumni of KLEF have done extremely well in academics and are holding very good positions in different fields and can be found in several developed countries, viz. Australia, Germany, Japan, UK, USA, etc. Several Alumni have started their own companies/enterprises (Start-ups) and are transforming the society by becoming "Job Creators" than being 'Job seekers'. Ms. Vennam Jyothi Surekha, student of KLEF received "Arjun Award"

in Archery from the President of India. The University has adopted 100 neighbouring villages and working for the upliftment of their living standards. The success and achievements of University directly contributed to wealth creation and transforming individual families and the society at large.

Futuristic with Innovation

The University is imparting latest education to suit the needs of Industry 4.0. The emerging programs, viz. Design thinking, Artificial Intelligence Data Science, IOT, Robotics & Automation, etc. have been introduced. Students are given flexibility in choosing their courses with provisions such as CBCS, Minor degree, Degree with specialization, etc. The University paves innovation in teaching pedagogy through blended learning, flipped learning, online courses, and project-based learning. KLEF is constantly revising its curriculum to meet the global standards.



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Vachas

MESSAGES

*“The one who has no inspiration,
has no ambition.”*



Er. Koneru Satyanarayana
President, KL (Deemed to be University)

It is a pleasing and wondrous sight of people going back to work, students attending their classes and working on their beloved hobbies after a prolonged pause from everyday activities. The KL Horizon magazine always excites me with innovative work. Times have not been good for the past few months. Nevertheless, students with utmost passion and a never-complaining attitude solved the virtual hurdles and have come up with the most eye pleasing content ever. I hope that the theme Mars- Unraveling the red planet will appeal to the people about the information that the earth has, and clear the myths the people have on the planet and on the researchers who are working on the planet. It is definitely not an easy task to coordinate people virtually, but it is only in these times that hard work stands out. I congratulate and appreciate all the students who put together their ideas and their work into action. I appreciate the efforts of the editorial team for making “KL Horizon” our voice. Not just yours, and mine, but “Ours”.



*“Chase your dreams,
even if you trip.”*

Dr. L. S. S. Reddy,
Vice-Chancellor, KL (Deemed to be University)

KL Horizon has always been the best platform to portray students' skills. The latent talents of our university have taken this opportunity to unravel the facts. This time KL Horizon has stepped up to work on a unique theme which is the headline of every newspaper all over the globe. It's time for readers to experience the voyage to Mars and explore fascinating facts about the red planet. With great team spirit, the editorial has endeavored to learn more about Mars. Hearty congratulations to the magazine team and the students who have left no stone unturned to prove their adroitness.

“The true strength lies in how you face your challenges”



Dr. N. Venkatram,
Pro Vice-Chancellor, Administration, KL (Deemed to be University)

“There is nothing more difficult to take in hand, more perilous to conduct, or more uncertain in its success, than to take the lead in the introduction of a new order of things.”

Students adapting to the new lifestyle while also coping up with their studies is indeed difficult. A new today heralds the many troubles we have in the future while thinking back to the mistakes we did in the past. Students have worked hard this past couple weeks and I’m very pleased to see that they are able to make something out of their hobbies. KL Horizon coming with a new theme and team right on schedule is a sign that shows us the amount of efforts students have put into it. Proud that the team is working hard in these perilous times together and getting the required tasks done, while wishing them success in this endeavour they have willingly and daringly accepted.



“As water finds its way back to the sea, you’ll always return to where you belong.”

Dr. G. P. Saradhi Varma,
Pro Vice-Chancellor, Academics, KL (Deemed to be University)

Providing ample opportunities in engineering education is one of the most fundamental obligations we owe to our students because, at KL University, we are driven by the belief that every student deserves a high-quality education. Providing the students with a meticulous and carefully planned mix of academics and extracurriculars through which everyone has proved yet again that, it’s not just studies that we excel in, but every single endeavour that we choose to do. I congratulate the Magazine Team and the faculty for their tireless efforts that have come to fruition in the form of this magazine. I wish it all success and hope that this tradition that has been set by the current students will be carried through by the following generation of students to come.

*“Every dream deserves
a chance to live.”*



Dr. Prasada Rao YVSSSV,
Registrar, KL (Deemed to be University)

It’s always exciting when the young generation starts working on their interests, sweating their brains instead of sweating their backs by carrying heavy loads. It’s very hard to find one’s passion but even in the very hectic schedule of academics these kids are trying to shine by balancing their academics and self interests. Finding out the passion is only one step but dedicating to the aim, and driving through the interests of one’s self is the most admiring about the team Horizon and not to mention every student of our organization. Everyday while I walk to my cabin from the gate I see thousands of students are stepping ahead towards their career, goals and by the end of the day they become a complete personality by enhancing all round skills; which makes us work with more interest and come up with more ways to enhance the support that we can offer them.



“Let positivity be your shield.”

Dr. K. R. S. Prasad
Dean, Student Affairs, KL (Deemed to be University)

“Either write something worth reading or do something worth writing”. KL Horizon is the embodiment of our university beliefs and ideologies. This time KL Horizon is ready to take off the thoughts of the students out of our planet. A collection of technology, developments, sci-fi, astrology, and many more is primed to make readers out of blues. I would like to extend my appreciation and best wishes for edition 8 of KL Horizon. I congratulate Team Magazine on this major accomplishment and would like to express my hope of witnessing many more editions like this.

“Every fall is a chance to rise”



Dr. M. Kameswara Rao,
Assoc. Dean, Publishing, KL (Deemed to be University)

A person can never be considered a complete person with just academic or technical skills. The entirety of the institution would be decorated with exuberance during the making of the magazine every turn, with both Team Magazine and the students on their toes to bring out an illustrious edition. In KL University it's one of the major aspects that has been concentrated since the day one of students in college, it's never the regular classroom work, it's always the all round development of the student. The enrichment of personal skills, the happening of personality development is remarkable when people team up with peers to complete a task of their passion with unimaginable interest. KL Horizon is raising the horizons every edition with uncommendable work. This edition has special attraction because of the virtual team collaboration for work and physical implementation.



“It's ok to forget your mistakes but it's important to remember your lessons.”

Dr. Shubhakar Raju
Hobby Clubs In-Charge, KL (Deemed to be University)

I take utmost pleasure in bringing to you the 8th edition of the University Student Magazine, KL HORIZON. An amazing platform for aspiring writers and talented artists, Horizon has paved the way for them to showcase their talents. This edition is coming to you with an exquisite theme like never before, “The backup- unravelling the red planet”. The magazine team has put in tremendous work and effort to put together the thoughts and dreams of all the students which is quite admirable. This would not be possible without the universities commendable support and students’ interest and passion towards their work and their dedication for making people know what hidden talents their peers have.

EDITORIAL NOTE

My Dear Readers,

Saadara Savinaya Saprema Swagatam.

I on behalf of the entire team of KL HORIZON, take this wondrous opportunity to welcome and introduce you all to yet another edition of this cherished magazine. I thank every single one of you for showering all the love and support all through these years.

KL HORIZON, with every edition going by, is growing beautifully as a platform to educate its readers, a platform to voice out opinions, a platform to showcase talents of students, and a platform to enjoy for everyone who carries literature close to their heart.

Funny are the times we live in, for we are dangling on lines glazed with trauma from a bitter past and a hope for a better future. Amidst all these hectic and ambiguous strides, my team has put in gigantic amounts of effort and has left no stone unturned to bring to you the eighth edition of this magazine. We named this one "THE BACKUP- Unravelling the Red Planet".

From time immemorial, humans have always been fascinated by the worlds above and beyond. MARS - Our "Red Neighbour" too has been of keen interest to people far and wide. Few are overwhelmed by it while few are excited enough to make it their home. We in this edition explore all the theories, tales, and taboos behind this terrestrial marvel. We unravel the facts, the findings, and the forays of man into the exploration of mars. What does it have in store for us? Will we see ourselves on it in the future? Will we "need" it in the future? I will leave you to discover the answers to such questions as you read further into the magazine.

I can proudly say that all the hard work of the team, put into this book makes it worth as good as a manuscript. The team with all its heart and soul wishes that you like this edition of the magazine and that you have a wonderful experience reading it. We sincerely thank everyone who has made contributions to this book for without all of your efforts this would not have been a

reality. I thank the University Administration and Management for constantly supporting us throughout this endeavor. I also thank my peers for being so dedicated and showing excellent workmanship.

I want to end my part with a quote from a famous motion picture *INTERSTELLAR*, "We've always defined ourselves by the ability to overcome the impossible. And we count these moments. These moments when we dare to aim higher, to break barriers, to reach for the stars, to make the unknown known. We count these moments as our proudest achievements."

We are always open to all your views and reviews on the magazine and hope you all love reading this one as much as you all did all the others.

Until next time,

Thanking you,



Vishnu Makham
170040505



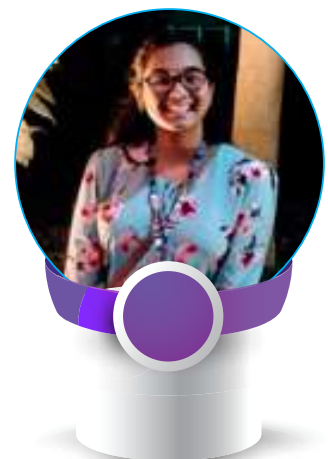
A WORD FROM **Vachas**

KL University is a cutting edge Technological University that offers higher education in Engineering, Technology and allied Sciences relevant to the current and projected needs of the society without compromising with the overall development of the student personality. As we already know, the hobby clubs of KL University provide a chief extracurricular outlet for student energies and just like every other literature club, Vachas is formed for the purpose of promoting language skills and oratory for those who seek to inculcate these interests alongside technical learning. Along with the many responsibilities Vachas undertakes, the University student magazine, KL Horizon is one prime focus. Through long days and even longer nights, students from all across the University, along with the faculty in charge worked together to accomplish what we set out to do. It is then for this edition, the Team came up with the theme, 'The Backup' which is the most admissible in recent times. Also, we were very much thankful for the response that we've got from every one of you, be it the students or the faculty. It is because of the continuous effort of the Team, the students and the management that this edition is successfully published.

The main idea of Vachas is to give a new dimension to the speaking and writing potential of the students thereby enhancing their overall personality and Vachas is certainly important for enabling students to give expression to their thoughts and engage in healthy interactive sessions with their peers. To encourage this, Vachas conducts a meet every week which fosters knowledge and stimulates fun amongst the members thereby awakening their critical ability and creates a sense of awareness amongst the speakers and the listeners. It also gives a platform that brings together the literary minds of the University in the creative process of writing. Vachas also consists of a group of writers analyzing, comparing and improving their works, while holding discussions on the emerging and ever-changing trends in contemporary writing.



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Velaga Valentina
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ABOUT HOBBY CLUBS

THE MISSION OF HOBBY CLUBS:

The hobby clubs of KL (Deemed to be University) aims to fulfil the following:

- To help members of the club pursue and explore their interests by providing numerous platforms for them to choose from.
- To help exhibit exemplary teamwork while doing what they do the best and gain skills in collective teamwork.
- To develop the student's personalities and to help them achieve their future endeavours.
- To introduce them to a plethora of benefits in all-round personality development and skill-enhancement.

VACHAS CLUB:

Literature is the art of discovering something extraordinary about ordinary people and conveying extraordinary things about them using ordinary words. And from time to time, Vachas aims to organize a rich and diverse array of literary activities to inculcate among students, a flair for the language and enhance their literary skills which indeed brings out a wall magazine canvas to provide space for the student's creativity to flower, to become orators and display their intellectual, independent thinking skills and imbibe a sense of confidence. Not only their vocabulary skills get enhanced, but Vachas aims to improve the student's critical judgment and decision making skills.

SWARA CLUB:

SWARA club is an energetic club filled with students who are gifted with wonderful talents in the field of music. These students meet up and make captivating music that brings an adrenaline rush in our bodies. Be it vocalists, guitarists, keyboardists, bassists, drummers, violinists, the club has a very diverse talent in terms of the variety of instrumentalists and a range of different vocalists certainly not bound by genres. The club strives to promote student participation in the contribution and enjoyment of their musical abilities and to provide an outlet for all students to set a rhythm to their feelings in the form of music. They encourage students with a good potential in music to perform on big stages. All in all, it is a family with a mixture of musical talent and wonderful people.

NARTHANA CLUB:

Dance is like dreaming with our feet and to live that dream, Narthana is the stage which boosts up the morale of students not only to highlight their talent of dance but also to have their artistic exploration. The motto of this club is to possess the ability to fascinate people by adapting to the latest dance forms without mutating the real essence of dance. When one starts listing the forms of dances this club encompasses, the list gets longer with the Indian dance forms like Bharatanatyam, Kuchipudi and going on with contemporary, freestyle, and many more. Not only exploring, this club aims to teach multiple dance forms to those who are willing to learn.

ABHINAYA CLUB:

Abhinaya club is that one platform dedicated to promoting an enchanting journey where students meet fantastic creatures and incredible characters whilst exploring various dramatic acts. The club devotes itself to working for restoring the cultural heritage and to learn appreciating dramatic literature and its techniques. It also helps students to attain mastery of the language of expression. They include expressions like comedy, aggression, empathy and many other forms of expressions that are present in the dramatic acts.

CHALANA CHITRA CLUB:

A film is a petrified fountain of thoughts and to bring light on such thoughts to come true, Chalana Chitra is the place where students are encouraged to make short films and pursue photography based on the themes that address the hidden problems of the society to spread awareness in the form of entertainment. The motto of this club is to improve your ability to express yourself and make the revelation more artistic. We heard about a quote that says- " Every photograph has a hidden meaning in it" and that is why it brings together those who want to elicit their ideas and emotions, explore new themes through the medium of frames on a common stage.

AASTHA CLUB:

The Aastha club has proved itself as the best example for the quote, "Helping hands are better than praying lips", by initiating many contributions to change society. The main motto of this club is to help needy people like students studying in government schools, orphans, physically challenged people, and those affected by natural disasters. The students in this club share a common belief that a change should start within themselves and that is why this club aims to change and make the lives of those in need much better by providing them education, explaining freedom of expression, etc. Which are essential for survival.

AAROHANA CLUB:

Aarohana club is a trekking club which helps in building up self-confidence and teamwork in students. This club crafts a situation which helps the students understand the importance of assisting each other in intricate situations and aids students in managing ups and downs of their life by making them indulge in tasks where they keep learning from crazy experiences. It is said that nature is the best answer to all our problems, so this club also helps students to look after their mental health by taking them to beautiful and mesmerising sceneries which are therapeutic.

PRAKRUTHI CLUB:

This is a club completely dedicated to the protection of the environment and to create awareness among people about the importance of the environment. This club strives to project the threats to the environment because of human activities which are indeed endangering the species and disturbing the biodiversity and it firmly aims to live an eco-friendly life to protect ourselves before it's too late. Further, this idea helps us give our future generations an opportunity to experience the gifts of nature as it is. Also, it is our right to preserve the energy sources for them to use in the future generations.

SAMSKRUTHI CLUB :

"A civilization is a heritage of beliefs, customs, and knowledge slowly accumulated in centuries, elements difficult at times to justify by logic, but justifying themselves as paths when they lead somewhere since they open up for man his inner distance." This club spreads the greatness of heritage and social values of our country among the people and strives to promote Indian culture and heritage among the students and enhances the sense of religious tolerance and harmony. Our country's cultures and traditions are famous all over the world due to the diversity and mixture of cultures on one land. This club promotes practising our culture and makes sure that we stay rooted to our traditions.

YANTRANA CLUB:

Necessity is the mother of invention and invention is the mother of innovation. Every innovative idea led to an impossible invention which proved improbable, was not that hard to achieve. These have now become the part and parcel of our life. This technical club is a yonder destiny in the quest of perfection where no stone is left unturned and no second is left unspent. Students come with great innovative ideas and the club ensures that the best ideas are chosen and brought to life by working hard with continuous planning and monitoring.



MNVA SIVA RAM
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GLIMPSE OF CRYPTOCURRENCIES



The whole world is gradually taking a step towards digitalization, of course, everything has already been turned into a digital form, from buying valuable products to daily essentials we are using e-commerce stores, from movies to the music we are using OTT platforms, from paper currency to digital payments we have UPI's. We are habituated to digital payments but not digital currency. The next big thing in the evolution of currencies would be digital currency i.e. cryptocurrencies

Decent Intro to Cryptocurrency

Cryptocurrency is digital money. This means that there is no physical coin or physical paper used as a currency, the entire currency is on the internet. To transfer the cryptocurrencies there is no need for any intermediaries like banks, we don't even require third parties. New Cryptocurrencies are being created regularly. Cryptocurrencies work in a decentralized way, which implies that there is no central authority to control the cryptographic forms of money.

Cryptocurrencies don't collect transaction fees. Cryptocurrencies can be bought using a credit card, lots of investors are spending a lot of money investing in cryptocurrencies, expecting that cryptocurrencies would hit the market with high demand.

The sole of cryptocurrencies is Blockchain technology, which is the pure reason for the popularity of cryptocurrencies.

Early Stages of cryptocurrency

The first decentralized cryptocurrency is Bitcoin, which uses secure cryptographic algorithms.

Transactions are verified by network nodes through cryptography and recorded in a public distributed ledger called a blockchain. Bitcoins are created as a reward for a process known as mining. They can be exchanged for other currencies, products, and services.

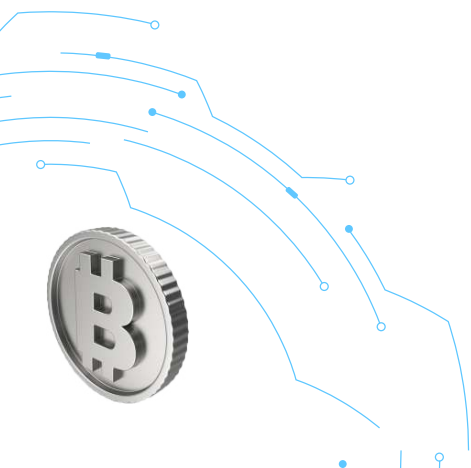
Later, Ether also gained popularity as a cryptocurrency on the Ethereum platform.

Deep Insights of cryptocurrency

- It is not ruled/owned by govt., a new cryptocurrency can be created by anyone and be released into the market
- The value of cryptocurrency changes constantly, i.e. it may either increase or decrease

Quick Facts about cryptocurrencies

- With the increase in demand for cryptocurrencies, scams would also increase, so don't fall into the trap
- Be aware of cryptojacking as this could lead to horrible circumstances
- Though the cryptocurrency transactions are anonymous, the wallet address and transaction amount could be used to identify the account holder.
- If a refund is initiated in form of cryptocurrency, the market value of crypto must be checked as the value of cryptocurrency changes constantly



WHY IS THE INDIAN GOVERNMENT PLANNING TO BAN CRYPTOCURRENCIES?



Why a lot of hype on Cryptocurrencies?

We have seen a sudden increase in the value of cryptocurrencies. There are many reasons for the rocketing of the price of cryptocurrencies such as Institutional Adoption, Easy Accessibility to the Public, Bitcoin Halving Driver Scarcity, and many celebrities are promoting it.

Bitcoin has 62% of market dominance in cryptocurrencies. It has increased by around 400% of its value since last March and Dogecoin has increased its value to 500% in a single day due to Elon Musk and some other celebrities' tweets. This kind of increment cannot be found in any other investment. So, the public is much interested in cryptocurrencies.

Why is the RBI against Cryptocurrencies?

In April 2018, the Reserve Bank of India (RBI) issued circular barring banks from dealing with cryptocurrencies. The circular said that such services include "maintaining accounts, registering, trading, giving loans against virtual tokens, accepting crypto as collateral, opening accounts of exchanges dealing with them and transfer/receipt of money in accounts relating to purchase/ sale of VCs."

In February 2019, the Ministry of Finance recommended to ban crypto and create a digital rupee, and imposing a fine of up to 25 crores or imprisonment for 10 years or even both. But it was not approved by the parliament.

Then again on March 4, 2020, the Supreme Court passed a judgment that cryptocurrency transactions are legal. So, with this decision investors are allowed to trade cryptocurrencies.

In February 2021, the government of India introduced Cryptocurrency and regulation of the official bill during the budget session of parliament to ban crypto. Finance Minister Nirmala Sitharaman also clarified the same with her reply in Rajya Sabha. The Minister of State for Finance Anurag also gave clarity on the same by stating "CRYPTOCURRENCIES ARE NEITHER CURRENCIES NOR ASSETS".



Reasons behind banning:

- Cryptocurrencies are volatile.
- Money laundering and security concerns.
- The risk to a consumer, cryptocurrency not legal tender.
- No access to currency if a private key is lost, Private key hosting services prone to hacking/malware.
- The central bank cannot regulate cryptocurrency supply in the economy, so it poses a financial risk.

Consequences faced:

- 20 Million citizens who are invested in cryptocurrencies will get a loss.
- 340+ cryptocurrencies startups and service providers get shut down.
- Nearly 50,000 direct and indirect employees lose their jobs.
- Investors will be missed out if any future gains in virtual assets like Bitcoin, Ethereum.



T. Trinadh Reddy
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THE RAISE OF 5G TECHNOLOGY



Introduction:

5G is the fifth generation of cellular data technology. It succeeds with 4G and related technologies, including LTE. The first 5G cellular networks were constructed in 2018, while 5G devices were widespread in 2019 and 2020.

The fifth generation of wireless cellular communications, “5G” continues to power ahead in 2020 with over 105 5G networks, now deployed around the world.

Before 5G came into existence, we have used 4G Technology.

Difference between 5G and 4G:

- 5G has higher speed, low latency, and high capacity where 4G latency is 40minute/second.
- The Traffic capacity 5G Technology is more as compared to 4G.

Which Country Invented this 5G Technology?

South Korea, China, and the United States of America worked on this and deployed in the 5G Technology.

When did 5G Technology start?

This Technology has started in the year 2019 in the month of April.

Use of 5G Technology:

- It delivers very high-speed internet, has massive network capacity
- The availability rate of 5G technology is high.

Applications of 5G Technology:

- Unified Global Standard.
- The network availability is everywhere.
- Radio signal at higher altitude level.

Advantages:

- It has a high resolution.
- It is bi-directional.
- More effective and efficient.
- Education will become easier.
- Missing people can be located easily.
- Natural disasters like earthquakes and tsunamis can be detected faster.

Disadvantages:

- Some security issues should be resolved.
- Deploying the infrastructure is highly expensive
- The development of this technology is still under process.

5G Application in the Real-world:

- Car to Car Connection.
- Gaming can be improved by making certain changes.
- With high capacity and high latency, IoT applications will boost up.

Industry Applications of 5G:

Agriculture: Farmers in the future are going to take data from soil moisture sensors (They measure how much water is present in the soil). From the readings of this sensor, the farmer will take the precautions of how much he is going to water the fields.

As you know that 5G is less expensive and it has a highly scalable network, this provides more accurate data for farmers which in turn will educate them against the usage of antibiotics and pesticides.

Health: This technology will connect doctors and patients anywhere in the world. When a patient is suffering from a disease it will automatically alert and send a message to the doctor with complete details of the patient's name, disease etc.

Use Cases of 5G Technology:

Connectivity for Edge Computing:

- In this, enterprises can take the advantage of strategically distributed computational power and allow more data to proceed and storing it in the right place.
- Edge computing convergences technology like Caimito.
- It is dramatically scaled up and the data insight is faster.

Virtualization:

- In all over the world many gamers play video games like pubg daily. 5G have promised a great future in gaming. 5G didn't tie up with devices that have high computing power.
- Processing and storing can be done then itself when the game is displayed and controlled by a laptop or a mobile.
- 5G Technology will have more advantages like gaming, high-speed internet and emergency cases for any purpose, building construction sites and for many other applications and use cases.



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THERE IS NO PLANet B

The recent trends for human survival and exploration for colonizing the other planet to build the plan-B have been the most concentrated discussion and research by various governmental space organisations and non-governmental organizations. Even without properly debating or understanding the reason for exploration or search for human survival, there are many myths that have been in every individual right from the chairpersons of corporate companies to the young generations of this planet, but we should drive with the facts and practicality, because of which the central theme of this edition has been put as the planet Mars. Right from the multibillion funded governmental space organization to recent great heights reached private organisations started to explore and try to get to the roots of the traces of life in mars. The new technical era has brought the power of achieving wondrous and mind-boggling findings with very compact equipment, not every great achievement is by luck or coincidence but most of the achievements are because of years and years of hard work, determination towards the end goal, passion for choosing such profession and the interest that they put every time while working. Every single letter of information, every achievement, every rover that is roaming on the mars soil, every satellite that's in the mars orbit is of the same kind, not to mention every space organisation's exceptional work, some had women lead teams, some pregnant women working during the critical stage of a project. Prototyping can be easy with new technologies but building a standalone model that too with the very meagre budget is something huge. Some of the organisations never gave up till they cracked their goal, motivating the fellow peers and mates to keep on working no matter what the end result is either it might be the 8th wonder or something that can seem impossible to achieve

by humans. Some started to reach mars in between the late '90s and early '20s. Though they might have reached the goal within 30 years of their start, they never stopped to try and innovate. Innovation is the most stressed word and the most practised during the process of mars.

Giving a thought about why choosing Mars as a theme is just to make people let go of the myths, acknowledge the findings, to motivate everyone to reach new heights with what we have in hand instead of screaming for what we don't.



G. Sheshank Mouli
170050036

FAITH IN MIRACLES

I know your anxiety comes and goes. And when you're alone, it's terrible. You're reminded of all the time you're wasting, all the things you could have done differently, and all the mistakes you made. With college catching up, your anxious thoughts making you less confident, you can see yourself deteriorating. And everytime someone important comes into your life, all you have is this constant fear of not meeting their expectations or the fear of messing things up. And at times, you question yourself, "How can i disappear?" Oh god, I know you hate reliving everything and thinking about why you're so scared of being alone, yet cutoff people. Push people away, yet want them to stay. You binge watch shows all the time, maybe because you want to distract yourself from the constant horror of reality. And if you were to spend one night without electronics, you don't know what you would do. The habit of over apologising never leaves you, and the worst part is you put others first rather than your own self. You know swords and guns are not the only weapons that kill, the tongue could do the same. So you're afraid to speak out just because you're scared to hurt people. I know it's complicated, but darling, you're a cosmos flower. And it's still spring. Wait until fall, and you'll bloom beautifully. I should say, we're all so brave to be alive right now. Breathing and feeling and being through the inevitable messiness of being human. I know the world feels heavy and uncertain and confusing right now. But I promise, light will be birthed through this. Destruction is a form of creation too. When everything feels like falling apart, everything is probably just coming together in the way your limited human perspective didn't expect. Replace your "what it's" with "even

if's". Let this moment strengthen your faith in miracles. Give yourself permission to be unapologetically honest with your emotions and use this opportunity to feel everything rising up the surface within you right now. Remember that this is temporary. That we, as individuals, are more powerful than we have been conditioned to believe. Your state of being, your actions, your words, has a far greater impact than you'll ever know. Someone still giggles when they think of that funny thing you said. Someone still smiles when they think of the compliment you have given them. Someone silently admires you. The support and love you've offered others has made them think twice. You're not insignificant or forgotten. Your existence makes a positive difference, whether you see it or not. The battlefield of this planet will only become a place of peace when we each choose to dissolve our armour and end the wars within ourselves.

And today

You are so fearless

To come here

To forget

To remember

To return

To rise



Hema Sanga
190030593

SUPERNOVA

AND BEHIND THE SCENE



Stars are born, live out their lives and ultimately die. Though the stars seem constant to us, there is in fact a relentless cycle of life and death going on in space. The stars appear unchanged to us only because they take – millions and billions of years to develop.

Life and death of stars:

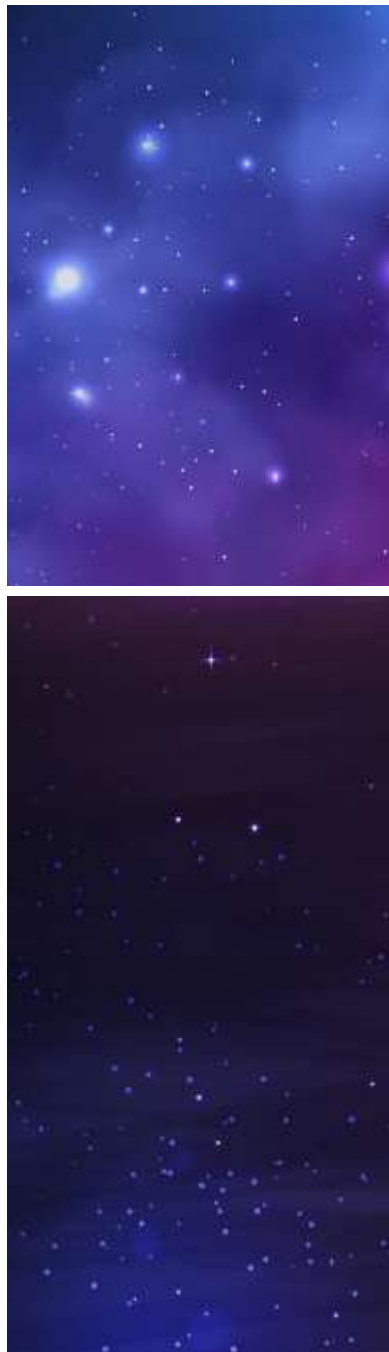
Between living stars, there are patches of dust and gas. Gravity in space forces the dust to bunch together and as more of the gas and dust bunch up, they form huge clouds called Nebulae. Over time, the matter gets dense, and heat builds up to form a young star that fills up surrounding nebulae with light and color called hot colors. With enough matter, this process continues, and the star gets denser and hotter. Eventually nuclear fusion begins, releasing huge amounts of heat and light: a star is born.

Once a star is born, it continues to burn energy and glows for billions of years. As the star gets old, balance is met between gravity wanting to shrink the star and to grow bigger. The star uses up its fuel, hydrogen and its center of core becomes smaller and hotter which leads to expansion. It expands to become a red giant ball or a supergiant. Once it is hot enough, the red giant starts to burn a new fuel called Helium. Helium pushes the outer layers furthermore outward, and the star eventually collapses to death.

What happens to the star that comes next ?

Stars of average size emerge in small sizes called white dwarf stars.

All their elements are thrown back into clouds of gas and dust from which stars were born to begin with.



But what happens to the bigger massive stars?

What happens to the stars that are eight times larger than our Sun ?

Now that the star is eight times larger to our Sun, it is pretty obvious that its end is going to be more dramatic than that of the most regular stars.

When a massive star runs out of fuel, it cools off which causes a drop in the pressure and this star suddenly collapses. Imagine something one million times the mass of earth collapsing in 15 seconds! The collapse happens so quickly that it creates enormous shock that causes the outer part of the star to explode. That's how large, massive stars end their lives with the largest explosion that takes place in space.

This explosion is called **SUPERNOVA**.

Spectacular and rapid events like a Supernova-explosion of a star are very rare. With billions of stars across countless galaxies in our universe, there is a high probability of a star going supernova somewhere...it is just a question if we can see it.

Brownie points: What after a star goes Supernova ?

The compression from the collapse of a star also causes the core to form a super dense small body which can either form a neutron star or a black hole.

If the star is big enough, this super dense core can even become a black hole!!!



Kruthika Raj V
2000031674

Fascination

Life on mars is a fantasy that fuels curiosity. Considering how big the universe is, we, humans, seem so insignificant. Our problems seem so trivial.

Earth is just one of 8 planets in our solar system. In our galaxy alone, there's 3,200 other stars with planets revolving around them. Coming to the number of galaxies in the universe, we have around 2 trillion.



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On earth there's over 7 billion people. Is it really not possible for life to exist someplace else?

I wonder if there's someone out there exactly like me. Not just on earth but somewhere else maybe.

I wonder if they have global warming and global pandemics? What's the guarantee that they don't?

I wonder if they eat, drink and sleep like we do.

I wonder if they feel emotions like we do.

I wonder if they get hurt like we do.

We have too many questions, but too little answers.



If Mars is our planet B,



Whose planet B is earth?



K. Goutami
190020030

THE HAPPINESS LAB

THE WAR FOR KINDNESS



Part 1

Empathy:

“The ability to understand and share the feelings of another.”

In these times of our society where we are feeling so divided than ever, what can we do to avoid all the anger and bitterness? Think of all the ethnic cleansing, hate crimes against marginalized groups, or a long legacy of racial violence. The root cause for such inhumane atrocities is that we as a society are unable to emotionally understand what other people feel, or in simple terms the “lack of empathy” or apathy.

We are slowly losing the ability to feel and understand the pain the person around us is going through. Even though we are all different, we are actually connected and can work together. But you can't be instantaneous to show empathy, it takes time and effort. Sometimes having someone to listen when they have a bad day can make them feel better. Just being there for them is already enough and can brighten their day. Maybe it doesn't mean anything to you, but it could mean a lot to them. Empathy is a skill that we can improve over time which can be used to do amazing things. It can honestly change the way you perceive the world around you.

Part 2

Us Vs them thinking:

We are social beings that have a deep need to belong. We need to work together in groups to survive and flourish. We tend to categorize people into social groups. And often these social groups can create an “Us vs Them” mentality towards people who may be more diverse than us in some way, whether it’s because of race, gender, age, nationality, culture, religion, or socioeconomic status. This polarisation leads to a lot of destruction to the human race. If we, as a society, want to improve and live peacefully with each other then we need to look past our differences and accept that there’s no such thing as ‘us’ and ‘them’. We’re all people. With similar goals and similar interests. Imagine what the world would look like if that was truly understood. And “we” would progress as a society.

Part 3

Epilogue:

We all have different opinions, instead of yelling or judging or even debating. Try to cultivate curiosity on the difference. By cultivating curiosity on what the other person has to say or their perspective on that particular topic, we might understand the other flip of the coin. Be the person who takes the first step, who puts the guard down and decides to be vulnerable. You might feel you are the only one swimming upstream against the culture of hatred and division, Be the change instead of waiting for it. Take action for people around you to make them feel better. Check-in on our friends, stop to aid a stranger, compliment others. Little things you do could mean a lot to others. Make society a kinder and less polarised place.

Commit to being kinder to one another.

Love yourself



Hari Krishnan
190030591



PEEK A BOO ON MARS

I have been thinking about writing an article about the discoveries of different countries on Mars. Everyone must be thinking that I might have gotten a lot to write about. Right!?? I have felt the same when I thought about it! But in contrast...There is nothing much we have discovered except for some gases and water. This left me with a question: why do we get super excited when we hear the word MARS despite being a planet with just some gases? We are not sure about the lifeforms over there. Then why? This is where my article took a turn! Let me tell you what I found!

There are currently eight active spacecraft orbiting Mars, out of which two are rovers. As per the data received from those spacecraft, NASA has given some reports which state that the Martian planet has a high probability of life!

Mars is only half the size of the earth, which means that it has a quarter of the surface area. So comparatively, the amount of water on Mars which we have estimated would reach a depth of only around sixteen to seventeen feet. It is a lot, but when it comes to the question of life, Mars has a long way to go. The gases which were found (Hydrogen, Oxygen and Carbon) gives hope of life to at least microbes.

These are just some numbers and estimations, but when it comes to reality, there arises a question that what if the so-called planet which we considered as our plan B' also suffers global warming, global pandemics. It is completely a hypothetical thing to think just like life on Mars, which is a hypothetical one.

As science students, we have to have hope and trust that Mars can be a plan B cause nothing is impossible for us, earthlings. Bye for now, meet you people on Mars someday!



S.V.Dharani Reddy
190020023

AMOUR-PROPRE



Picture this. You plug in your earphones to escape this dark world and while the songs are playing, you hum your favourite tune and sing the lyric. You cross your legs, shaking your head while embracing the cool breeze and those last golden rays on your oily face. Don't worry, it makes your face shine more :)

The sun is shedding its skin and is sinking into the clouds, waving you a good bye. You ask for it to appear again the next day and so it does.

And at this very moment, you become very vulnerable with your emotions, those emotions which cannot be explained with words. You feel lonely, but it's a good kind of loneliness. You are all by yourself and you don't want any human contact. You are under your own therapy and the sinking sun is your therapist. You try to find answers and what you witness after every blink of your eye will earn you an answer.

Will you blink your eye for once and feel it? Thank you!

When the birds fly together, there is always one bird which flies alone.

My dear friend, now you are that one bird and you realise your potential. All you have to do is to let open your wings and fly.

Everytime a cool breeze kisses you on your forehead, that is an assurance that your presence is as soothing as the cool breeze on your face is.

And lastly, everytime you wipe those tears off your face, you take a rebirth with full of hope, just like the clouds in the dusk wait for the sun to rise in the dawn.

Now pat yourself not once but twice every time you overcome an obstacle by yourself.

You are beautiful

You are strong

Because my love, if existing is a life skill
SURVIVAL IS AN ART.

YOU are an ARTIST painting your life, making it more colourful with every stroke.

Thank you for reading.



MNVA Siva Ram
180040234

MARS

THE NEXT DESTINATION



Mars has always been captivating to us humans ever since we discovered some object in the sky at night which looked like a star. From then on, any random discussion on THE RED PLANET has been so fascinating.

In the late 1800's, surface features were revealed with the help of a telescope. But it was during the 1960's, we thought of exploring the planet. From then on, continuous researches are being done to find out more details about life and livelihood on this planet. We have come to such an extent where we are thinking of making it our NEXT DESTINATION. But IS IT RIGHT to do so???

We are living on the planet Earth from a time immemorial. Rather than focusing on how to make OUR HOME a better place to live in, we are focusing on our NEIGHBOUR'S HOME and developing it. But to what extent is it correct? If any problem occurs in our home, we try to fix it among ourselves and live together happily again. But we don't try to go to our neighbour's home and start living with them. We won't be as comfortable as we are in our OWN HOMES if we try to do so. In a similar manner, we should try to sort out what issues are being faced on Earth rather than finding another alternative cause THERE IS NO OTHER PLACE LIKE OUR FIRST HOME. LIVE, ENJOY AND MAKE EARTH A BETTER PLACE TO LIVE IN...



LAHARI YADLAPALLI
190031777



FUNNY AND MEMORABLE INCIDENT

The weirdest incident in the 1st year of my engineering life went as follows...

Usually, our university (KLEF) is famous for conducting various fests. As there are a lot of different stream students pursuing their education, every day is like a fest. Likewise, on that day (I don't remember the date and month) after completion of classes, I was walking all the way to reach the bus stop. On my way, I saw a lot of games and workshops going on. After looking at them, I felt a bit ecstatic. As there was more than 1/2 an hour for the bus to depart from the university, I wanted to participate in any one of the games.

So, my "Bus - mate" (actually his name is REHMAN) and I decided to go to one of the games before the bus leaves from the college. So, we got down from the bus after keeping our bags. Exactly 100m away from the bus, there is a game named "HUMAN CHESS". Me being a chess enthusiast, had glitter in my eyes after seeing it and asked Rehman if we could try that for which he accepted.

So, we went there and found that some of our friends were already playing and even I advised some of the moves in between making our team win. I lost the track of time and was screwed up because the buses were about to leave, and I ran like a bolt (just imagine) and still we missed the bus with our bags in it. To our luck, I kept my mobile with me rather than putting it in my bag.

We realized that we have to reach the stop before the bus reaches us and we hired an auto near the bike rental shop

and it was closed (As usual our Bad Luck played a key role). I just thought what a wonderful day it was(sarcastically). It was totally insane!

We tried to hire an auto but he demanded 500 bucks to the bus stop in Vijayawada by which we were bemused and asked him “What are you asking Anna(bro)? We are not asking you to take us to Guntur. we are just asking for Vijayawada which is hardly a 10 km distance from here.” Who the hell are you man? (My mind talks...)

There were a lot of queries going on in my mind. After some time, I asked Rehman if we could call someone on the bus. But I don't have anyone's number. Later when I browsed, to our luck I found one of the bus mate's number with whom I never spoke. I told Rehman that I will call him and I did. I explained to him our situation and requested him to give the bags to any of his friends to which he replied that I too didn't have any friends.

Oh My God, I started thinking out of the box, and suddenly I remembered that there's a faculty, who gets down at our stop. So, I told him to give the bags to that faculty and asked him to tell sir to wait for a few minutes at the bus-stop once he gets down. He conveyed the same to sir. We hired another auto. He demanded 200 bucks to which we thought that we could manage as I have 120 bucks and my friend has 30. But still, we need 50 bucks more...

Then Rehman suggested that we could pay through Paytm. But unfortunately, that driver didn't have any e-wallets...Oh god!

So, we told him that we would draw money from the ATM and will pay him once we get down at the stop. He accepted. We got into the auto. We requested the auto driver to go a bit faster and he asked, “Did you hire a rocket?” to which we said no. He then

said, “Now you are on the rocket. You will reach there within seconds.” We sighed. (shh!)

On the way to Vijayawada, he asked “Shall I hire some more passengers so that I will be profitable?”. We accepted and said it was his wish, but pleaded with him to take us to the stop as soon as possible. By the time we reached, we were relieved by watching the faculty waiting at the stop with our bags. We paid the driver 150 rupees and told him to wait until we draw the money from the ATM. Unfortunately, the ATM's board displayed “Out of cash.”

Oh, God!!!! , then I went to the bus stop and asked the faculty for the rest of the 50 bucks. He said “Sorry my friend! I don't carry money. Wait let me see.” He found 10 rupees and we gave the same money to the auto driver. He asked, “What are you giving, we have a deal of 200 bucks and you gave only 160 bucks.” We requested that we would pay him the rest of the amount through Google Pay after we reached our homes and asked for his number. He asked, “Are you sure?” We then replied, “Sure bro, we will. Finally we got our bags after many struggles.” (For your information the contents inside the bags are a Laptop of cost 80k, and a wallet of 1k). So, for these things we did more than an adventure.



KARANAM SAI JAYANTH
190030743, CSE



POWER OF INDIAN PENAL COURT



History ever begins with the victory of good over bad. As Rama killed Ravana then Diwali blooms up. Puranas, Grandhas, and all ethical books told that Nature kills evil. Here our Hero Anurag started his journey at the bars of the jail. Everyone left him except his friends. Days have been passed at bars but none has rescued him. One fine day a great lawyer named Satya Dev took up the case and started digging out the pros and cons of the case. Eventually, he got some pieces of evidence regarding Anurag's case. Lawyer Satya Dev met Anurag at the jail and discussed with him those shreds of evidence. On Court day Lawyer Satya Dev supported his client Anurag and proved that he is a penal servitude. Anurag started his new beautiful life with his friends. Daily he bought a bunch of fruits for needy children. His life was like a bed of roses with sticky thorns. Lawyer Satya Dev met Anurag to show some important evidence to make an action against the Inspector who took charge of Anurag without any valid reason. One fascinating morning Anurag filed a case against Inspector Devgan. The court accepted the file under Article 21/ Indian penal court law. Lawyer Satya Dev cracked the case and threw the Devagan under the bars of Dark.

Imprisonment may not be the end, there is a life beyond that. Life doesn't help the one who is above the feed. The Indian government has many laws, classes, and subclasses to support the ones who are in need. Indian Constitution made many amendments and laws to the poor to get their rights and set back their freedom against evil intruders. Kings may pass, days may pass but finally, the throne of Dharma is back to you, who are the true followers of Dharma.



Jagadish Kumar Pesala,
170040690, ECE



Anurag Santosh Reddy
170040609, ECE


BEING CLOSE TO NATURE

MY TRIP TO LAMBASINGI- ARAKU-VIZAG



I believe nature is the best for healing and relaxation. With every step towards nature, I feel so refreshed and gain good energy and motivation to work. I visited Lammasingi, Araku, and Vizag in a row in January. Lammasingi is a small village in the eastern ghats of Chintapalli mandal near Vizag. It is known as Kashmir of Andhra Pradesh. The village experiences chilly winters and sometimes temperature falls below 5°C. Coffee plantations are their major occupation and you





can also find many strawberry farms in the village. There are very few options for the food and stay, we stayed at AP tourism Haritha Resort. We reached Lammasingi at around 7 o'clock in the night and went around the village. Later, we returned to the resort, had a campfire and had dinner alongside.

The next morning at around 4 AM we were at the base of viewpoint hill. It is a small trek of 45 minutes to reach the top. You can see coffee plantations and turmeric plants on either side of your way. Though it's a small trek, it's nice. At about 5 AM, we reached the top and it's dark and cool there. Around 6 AM, the sun rose and I witnessed fog between the hills like a milky way. With the beautiful view and weather, you can have a peaceful and pleasant time. We spent some time there, then I observed the livelihood of locals and later we started back. After getting fresh, we had breakfast and visited the strawberry farm. I learned about the strawberry plantations and the cultivation in the hilly areas. After that, we reached Kothapalli waterfalls which is a 90-minute drive from Lammasingi on the way to Araku. It is a small waterfall and we had some time there relaxing, enjoying the water and the

sound of flow. We had our lunch there and then started to Araku Valley. The famous food we find on the way to and in Araku is grilled chicken, bamboo chicken, and bamboo biryani. There will be very few options for vegetarians.

It takes 2 hours by road to reach Araku. You can see beautiful landscapes on the journey from Kothapalli to Araku. The ride was so pleasant and I loved every view through the journey. I also witnessed a beautiful sunset between the hills of Araku Valley. On the way to our resort, we stopped for a while at Galikonda viewpoint, where you will get a scenic look from 4300 ft. altitude. We stayed at AP tourism Jungle Bells Tyda resort near Ananthagiri which is an hour journey from Araku Valley. Staying there gave us more closer to nature and the feel of living in the forest.

The next day, we visited Padmapuram Botanical gardens, The Tribal Museum, and the Coffee Museum in Araku Valley. Padmapuram garden is a vast botanical garden covering a huge variety of plants and trees. The Tribal Museum showcases the lifestyle, traditional arts, handicrafts, costumes, and ornaments of the tribal people. We can purchase the organic cereals and handicrafts

sold there. The Coffee Museum explains the story of coffee, how it came to India, the manufacturing procedure, and many more facts about coffee. We can taste the Araku Valley coffee in the coffee shop and can also buy coffee products, chocolates, spices, etc., in the coffee museum. By the end of the day, we returned to our resort.

The next morning we went on a forest trek near our resort. The private guide will explain to us about the variety of plants and trees and the tribals living there. We also visited the tunnels near our cottage. After the trek, we got fresh and visited Borra Caves. Borra Caves are naturally formed caves due to the flow of the Gosthani River through them. I was surprised to know that a railway track is passing over the caves at a point at a height of 176 ft. The caves are at a height of 2182 ft. above the mean sea level and many movies are shot in these caves. After visiting the caves, we had our lunch and started to Visakhapatnam. "I witnessed the beauty of hills, the fragrance of the forest, and the warmth of nature in my journey between those hills starting from



Lammasing till the end of Araku."

Visakhapatnam is a 3-hour drive from Borra Caves and we reached there by evening. Vizag is famous for its beaches and is a hub of many industries. We quickly got refreshed in our hotel and began exploring the city. We visited the INS Kursura submarine museum which is at RK beach, it was India's first submarine museum. S-20 was India's fifth submarine and it turned into a museum in 2002, after its 31 years of service. Going through the submarine I learned about the functionality of submarines and how soldiers lived in submarines during wars. Opposite the submarine museum, there is an aircraft museum which is named TU 142 Aircraft Museum. I visited the aircraft museum and learned about the working of aircraft, its structure, and also about the aircraft officers and pilots. We also visited the marine aquarium which is within walkable distance from the aircraft museum, where you can find a good variety



of fishes. After that, we walked along the beach road and spent some time on the RK beach. There will be several food stalls throughout the RK beach road. I tasted some of them, I very much liked the haleem I tasted from the Zayaak Haleem stall, and they sell homemade haleem and will be available all over the year.



Vizag is famous for its beaches but I couldn't visit all of them due to the time constraint. The next morning, we visited Rushikonda Beach. With the rising sun and the pleasant atmosphere, I had a good time there. Memorizing Sarah Kay's quote "Because there's nothing more beautiful than the way the ocean refuses to stop kissing the shoreline, no matter how many times it's sent away", I felt that when observed deeper every piece of nature teaches us something. While playing in the water, we found a variety of fishes coming with the waves and I tried to catch them but they moved very quickly and escaped from the palms. Then we had breakfast, got fresh,

and went to Kailasagiri. Kailasagiri Hill is a nature park and you can have the best view of the city from there, the 40 ft. idols of Lord Shiva and Parvathi are an attraction to the tourists. We can reach the top of Kailasagiri hill either by road or by ropeway. I suggest that the ropeway would be the best as you can experience the scenic views of the beach and the city. We went through the ropeway. We spent some time there and then started back home after having lunch.

"Travelling gives you good experience and teachings. The more you travel, the more you will learn and the more perfect you become."



PAILEMPATI AKHILA
170030961, CSE

SHORT STORY

A long time ago, there lived a farmer with his two sons studying 3rd & 4th standard. These two were the noisiest children. These two children always make their father unhappy. They used to spoil a lot of things inside the home and in the fields. There were no rains that season. The farmer was extremely sad since his last crops haven't yielded many profits. And he wasn't able to do anything. Days passed by, and one fine day while returning from school, his children quarreled with fellow friends. They started to beat each other with available stones & sticks. In the quarrel, one of the farmers' sons hit the other boy with a stick which bruised the eye of Zamindar's son, who was 14 years old.

A rickshaw wala coming on the same road saw this and immediately called the people who are nearby. He took Zamindar's son to the hospital and the people took control of the remaining children. When the news traveled to Zamindar, he was raging with anger since he has only one son for his inheritance. Zamindari was known for his arrogance, cruelty, proudness, and madness. He immediately called the police and told him to take the farmer and his son to custody. The police immediately went to the

farmer's house and called him "O bikhari jaldi bahar a nahi to marega tu" (Zamindar is calling you). The farmer was drunk and he was drowsy. The policemen gave him a tight slap and threw him into the jeep. They took him directly to Zamindar's house.

There in Zamindar's house, the servants and policemen are waiting for the farmer. They tied his hands and started to beat him with the stick. The farmer was bewildered and was not able to figure out what's really happening around him. So when he tries to speak something, they are trying to slap him harder. The farmer began to keep quiet. The policemen beat him very badly for two long hours. Meanwhile, Zamindar's son arrived and saw this and has given a tight slap on the farmer and said "First tell your son to sit at home or else next time your son will face all this." Furiously, zamindar's son went away. Farmer pleaded with the policeman and Zamindar, and then the policemen dragged his head to Zamindar's feet. The farmer pleaded for mercy saying, "Sahab mujhe chod do sahab, phir agli baar nahi hoga." Later the policeman said if we beat him

more, he will die here eventually.

Then Zamindar said to the farmer, "Leave your son to us for slavery for the next 10 years or hand over the farmland to me." He ordered the policemen that the farmer must accept either one of the two options. If he escapes or says no to the punishment, beat him to death. The farmer nodded his head & signed that his son will be a slave for the next 10 years. After he put the thumb impression on the paper, the next moment the sky turned black with clouds all over. There was heavy lightning. It seemed like the sky turned red.

Farmer's wife was trembling at the gate of Zamindar's house, praying to God for mercy. Due to heavy lightning, two huts caught fire. Everyone was crying, moving here and there. By seeing that, Zamindar was having different cruel thoughts. He told his servants to drop the farmer at his home and then silently whispered in the ears of the servant, "After dropping him in the house, burn the farmer's hut and his land." The servant nodded his head. The farmer followed the servant.

Just when they crossed the main gate of the Zamindar's house, a bolt

of lightning stroked the house. The main building where Zamindar was living was burnt to ashes in seconds. The farmer, farmer's wife, and servant got minor injuries.

We have come very far, borders changed, states divided into small fragments, the number of Union territories increased. The thirst for freedom is still there. The diversity is left at the doors of riches. Secularism sleeping on our beds, equality left at the seashores. Decades back we complained about the rules of slavery by white, but if you think of it, at least they have given us a voice to speak. But if we see ourselves today, we are silenced with coffins of fellow mates who have rendered inner pain on the roads of democracy. Still, the suit people loot the dhoti people with no mercy. The days will come where suit people get scared to think about looting the dhoti people. God has no mercy for those who wish to spoil other lives to benefit their own, just like God didn't have mercy to spare Zamindar!

V.L.V.Vardhan
MA 1st year
2001550003



LETTER TO THE LONE

Hey you... Yes, It's you.!

Stay with me right here,
I'm always there to cheer!
Leave away the Shadows,
Let us run into the meadows!

Because
It is not just you.
It was never only you.

What makes you feel uncared?
Are your moments unshared?
Now c'mon,
Believe in me and look at the world.
Beautifully filled with Hope,
Always to make you Cope.

What makes you feel sore?
Are you afraid of being ignored?
Now Get up,
Hold my hand and come out of the cage.
Let the love reach out to you,
It's shouting out for you.

Because
It is all around you.
It was always for you.
Stand by my side and walk with me.
Though some don't bother your essence,
Many things await your presence.

Because
The world gives you a call.
We are humans after all.
Now, Hold On!
It's your turn to choose,
Whether to cry in the eye
Or to fly in the sky.

Because
You are not alone.
The world is never a stone.



WHY IS FINANCIAL LITERACY IMPORTANT ?

In the initial days of my college life as a student, I depend on my parents for my needs and expenses, they will try to fulfill all my needs and give me some pocket money, but the next second receives that I start searching for ways to spend that money and make it zero. Days passed and my expenses started increasing because I used to borrow money from friends or some other sources, mainly the ads and pop up (Instant loan for students... Hurry!!). Spending the money and enjoying the desires is one side and the main trouble starts while the repayment time comes. The inflow is less but the outflow is more and to cover that outflow I used to borrow from others and I used to Rotate the cycle. Apart from academics, these things started creating more stress on me. But one day I started thinking, am I spending more than needed? When someday or another, I may start earning. What will happen if I repeat the same at that time? What will happen if we spend everything, without saving? These things scared me a lot, Then I came to understand that I have no Financial Literacy, without which I cannot manage things in my next stage.

Our ability to effectively manage our money by drawing systematic budgets, paying off our debts, making buying and selling decisions, and ultimately becoming financially self-sustainable is known as financial literacy.

Financial Literacy – What does it Involve ?

From simple practices like keeping a track of our expenses and understanding the need to spend money if we like a product, to striking a balance between the value of time saved and money lost, paying our taxes and filing of tax returns, finalizing the property deals, etc – everything becomes a part of financial literacy.

As human beings, we are not expected to know the essentials of financial management. But managing our own money in a way that does not negatively affect us and our family is important. We certainly do not want to end up having a day with no money at hand and hunger in our stomachs.



Why is Financial Literacy so Important?

Financial literacy can enable an individual to build up a budgetary guide to distinguish what he buys, what he spends, and what he owes. This subject additionally influences entrepreneurs, who incredibly add to the financial development and strength of our economy.

Financial literacy helps people in becoming independent and self-sufficient. It empowers you with basic knowledge of investment options, financial markets, capital budgeting, etc.

Understanding Basic knowledge of financial literacy will help people with predicting the risks and argue or justify with anyone learned and well-informed.

These kinds of things are less concentrated in our schools and colleges but at the end of the day we need to know about these things too. Know a little about everything.



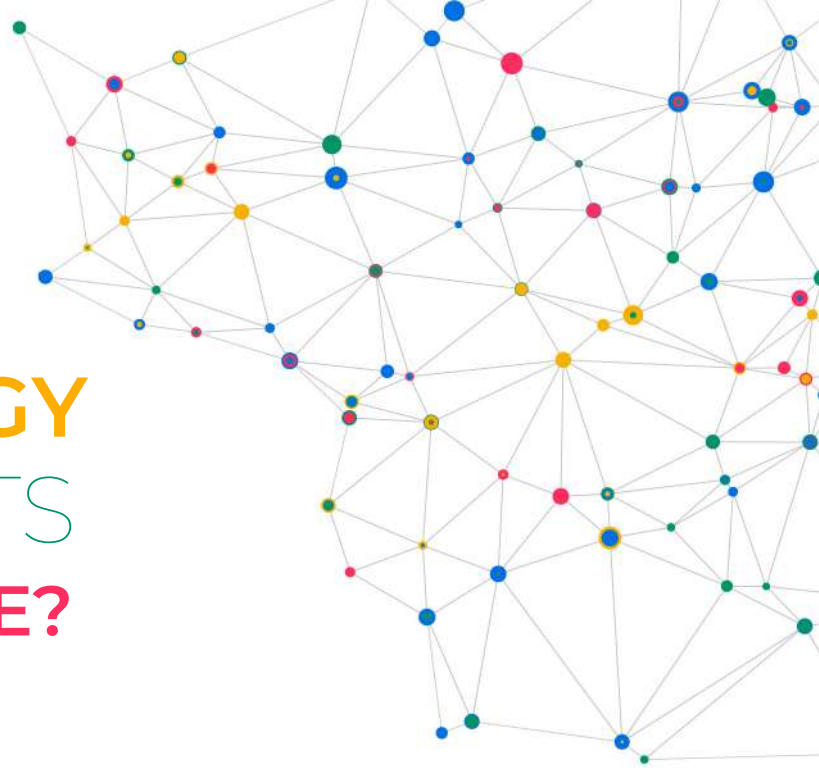
K.B.L.N.Srinivas
170070098, ME

THE PAIN WILL LEAVE ONCE IT'S DONE TEACHING YOU



**Y. Mythili Maha
Lakshmi
2010030286, CSE**

The world has been harsh to you.
I know you have been suffering lately.
I know it's painful to accept the facts which hurt you.
Sometimes you may feel like giving yourself a pause.
You may feel like giving up and hurting yourself.
Your heart may be heavy at this moment.
Your rage may cross the boundaries and, your soul may be tired.
Your hope may not be still.
You may fail to motivate yourself.
Your heart may be torn apart and, you may feel like falling apart.
You may feel as if your heart is getting shattered into pieces.
You may hold yourself as the reason for all the people who have left you.
There may be a time when things don't match your expectations.
No matter how reasonable things are, they don't seem to help.
Remind yourself you are strong, resistant, loved, and capable.
Tell yourself that you aren't deflected, weird, lost case, and different.
Because you are you and that's what matters.
You are unique and you will be happy again.
Because my dear friend, the pain will leave you once it's done teaching you.



ARE TECHNOLOGY ADVANCEMENTS A BOON OR A CURSE?

Technology advancements have drastically been increasing for a decade. Technology is often considered a boon. For instance, consider a smartphone. A half-century ago, man could only imagine a magical device like today's sophisticated smartphone. A typical smartphone assuages almost every need of a modern man. From a wake-up alarm to a bedtime reminder, advancements in technology have provided a reliable assistant who would never forget an appointment or silly task like getting groceries from the store. With every upgrade, it's getting stronger and enhanced exponentially based on performance, and connecting to us humanely. While this phenomenal invention is providing services in unlimited ways, most people don't realize there's another side to the coin.

As technology experiences exponential growth in popularity, many companies are pursuing cutting-edge technology emphasizing 'The Future is Now'. The rate of advancements in technology has been astonishingly higher when compared to any other industry. Back in the day, technology was considered an extension of the human brain. With the help of a cycle, a man can go a long distance in a shorter amount of time than by walking. With a tool like technology, man can achieve a higher potential. That has always been the thought for the creation of technology. There was a time when it just did what it was supposed to. For instance, a PDA helped organize tasks at hand for many professionals, for decades. It didn't get anyone addicted or affected them as modern technology. Hypothetically,

if a person has time-traveled from a century to this exact day, he would be startled as well as dismayed. The latest evolution is where everyone is plugged into a device or the other.

The race in developing or enhancing existing technology can be seen in the companies wanting to beneficially impact society or exploit the features of the technology. While some companies want to get to the top by helping humanity some want to make money through attention-grabbing techniques. The destination is the same, but the path followed is different. This kind of mixed nature is causing the mass population to feel ambivalent towards technology.

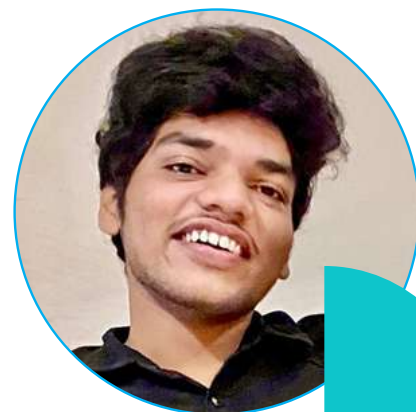
People are not in a position to differentiate when they are using a device productively and when they are wasting time. Despite a few companies'

efforts to bring awareness to the people by providing services that limit device usage, people are bypassing them when the allocated time depletes. It can be observed both in our personal and professional circles. Though many organizations are trying so hard to make people mindful and enlighten them, people are failing in practical implementation. The documentary 'The Social Dilemma' provides a great insight into the situation and the changes that need to be made.

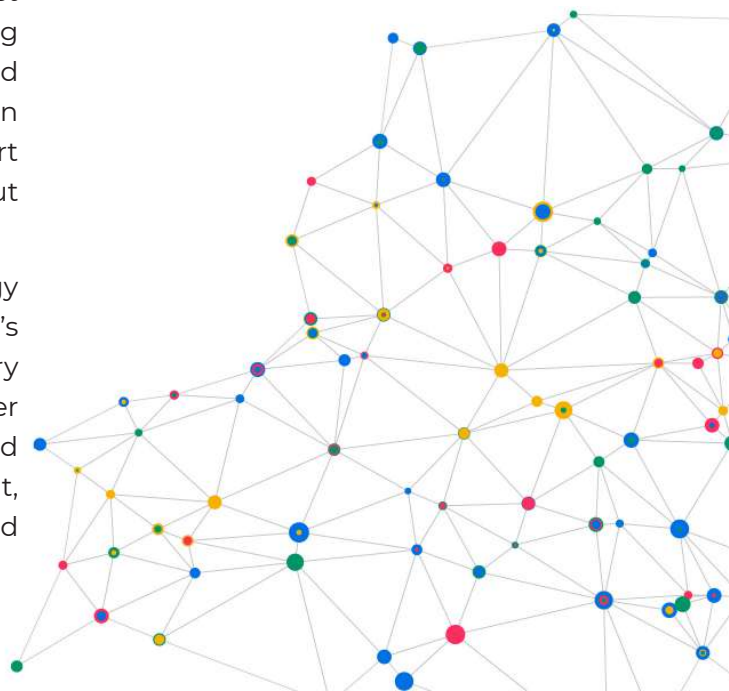
Besides, technological advancements are being misused by organizations and some governments in the worst ways one could imagine. The revelation in this decade explains how the power of technology can be misused if placed in the wrong hands. With advancements in tools, it is becoming easier to hack one's computer. Once hacked, it's a piece of cake to record the information and check the victim's actions without even making him aware of it. After all, a device is a machine without a mouth, it doesn't know the difference between right and wrong. Following the instructions is the only thing it can do. As this is the case, the power of this incredible machine lies in the hands of whoever is giving the institutions.

On the other hand, enhancements in products and the debut of new technology are helping people in limitless ways. A person who doesn't have a vision since childhood can perceive the world with a frequency analyzer that directly sends the information to his brain. Bionic limbs and bionic hands not just visual edits in science Fiction movies anymore. Enhancements in artificial intelligence like the robot, Sophia promises the physically challenged that assistant robots are in the near future. Agricultural technologies provide the analysis of the soil and what needs to be done for a high yield. The phones in our pocket determine if we have any underlying health issues based on our walking patterns. A simple reminder would make a grandmother never miss her medication. A person can be reached in seconds though he is geographically on the exact opposite of the circular earth. Technology has been helping humanity even beyond the atmosphere of the earth. It would have never been possible to explore space or just put a leg on the moon without technology. It has become an important part of our lives and we can't imagine life. A one-hour power cut would make most of our family go crazy because of boredom.

Overall, it appears as with anything in the world, technology advancements have their pros and cons. On one side it's improving lives, while on the other it's negatively affecting very human nature. Advancements should be made for the greater good of humanity. People should be mindful while using it and realize that it's a tool to the brain. When everyone recognizes that, every minute we spend with technology will be productive and we will be less affected by the negative aspects of technology.



**Hari Krishna
Naralasetty**
170030448, CSE



NOT AFRAID

Fields unfold beneath her feet
 She feels as if she's been here before
 But the sun's heat is different
 The birds don't sound the same

She walks over dried husks
 Stalks crunching with each step
 Her eyes catch in the corners
 The movement of a familiar shape

Unafraid she offers her hand
 Untaken she is led
 To the destination of her choosing
 A place she had never dared go

But that was before



**Tripuramallu
 Gnana Amrutha
 2000031383, CSE**

JUTE

Though there are thorns around,
We stretch for the roses.
Muting the buzzing bees,
We seek honey.
Flying over grimy soils,
We fall for the greenery.
Playing down the blinding heights
We adore the mountains.

And yet...

Rather than the drenching storm,
We malign our coat.
Far from the haunted house,
We fear our gut.
Ignoring the deal thrown,
We doubt our talent.
Forgiving the wanted one,
We hate ourselves.

More than to our mute mind,
We lose us to the rest.
So more than to the plague,
We give up to that mind.
What a paradoxical paradise,
This magic box is?
Showing what it has inside,
As if it is what we crave for.

Is life a game of fooling
around?

And one fine day being
fooled?

Sights of the scenery say so,
Which never keeps us cool.

This cruel fog of anonymity,
Can ever be tattered to
droplets?

Whatever the air is claiming
itself to be,

This scuffle of musings is a
tightrope walk!



YOU'RE **YOUNGER,** JUST **SHUT UP!!**

This is a short incident that happened to Bruce when he participated in a speaking competition.

Judges:- Enter in, Bruce. Just go on with your presentation.

Bruce:- Firstly, Good evening to one and all, I titled my content as you are younger just shut up.

This is a representation of a kind of racism that people never talk about but is all around. Colour, gender, caste, religion, etc., are the most hyped recipes of racism but age has always been a key ingredient in this dish. For suppose you have all the accurate points against the opponent in an argument and you are younger than them that's it! you lose. Suppose you are a government job aspirant (not considering the cast into my example) and you have excelled in your test, but there's another one too. Now here, the tiebreaker will be your age. If you are younger the higher rank goes to others. Age has been a quiet secret agent of racism who's present everywhere. When it comes to the siblings and you are the younger one and if you need a dress you get your brother's. If you need a bike, you get your brother's. And if you want to marry, you get your brother's I mean his ex-girlfriend if the trend becomes contagious in further generations (No offense, I was just kidding).

The younger ones face a lot of disrespect, sometimes they have just pushed away and ruled out only because they are younger. But people say age is never a boundary for love and, to be frank, most of the men-only choose younger women as their spouse but not the older ones. It's a mandatory marriage time for a girl when she turns major and if unfortunately, they are slightly aged they will get screwed up by society. Won't they have dreams and individuality? This implies that older ones face problems too. I am just balancing the sides. The only theme of my content is age racism.

Maturity is just like a driving license. In our society, if a person is 18+ they are certified as mature. Does age matter? What matters is the experiences you get and the things you learn from them. The experiences never end till your death as if learning things. A minor who starts understanding things wisely is extremely better

than a major who misunderstand silly things and makes it an issue. People still believe a myth that education is all about only certificates, but in fact, it is all about gaining knowledge. Certificates have an age limit but the freedom to learn and gain knowledge doesn't. Maturity is involved in every aspect of life as it grows with age but never ends. Think wisely, respect people of all ages and let seeds of racism not germinate in the hearts of future generations. We must keep their mentalities clean along with nature.

Thank you.

(Speeches passed and now it's declaration time)

Judges:- And the winner is Mr John, Congratulations john.

(Bruce approaches judges)

Bruce:- People in the hall are chanting my name and the echoes of my fame are far louder than anything else in the room, how can I not be the winner ?

Judges:- You're younger, just shut up and leave.

Bruce:- Am I a joke to you ?



Sai Siva Kathera
190030766, CSE

I COME FROM NO MAN'S LAND

I come from no man's land
 Arrogance searching its home
 Attitude finding its shelter
 Reputation questing for dens
 Dominations hunting for cottages
 Individuality dwelling for dens
 Smartness investigating for domicile
 Uniqueness craving for its new cabin
 Appraisals enquiring for hearth
 I laughed at their innocence
 Finding family in no man's land
 Gateman checking for their passes
 At the entry of heart gates
 No one has a pass
 Everyone was rejected
 Expressions found the pass
 Near the banks of flowing thoughts
 Experience found in the depths
 Anxiety from overflowing thoughts
 They too got a pass
 When the enchanting of self, quests
 For knowing self, the vanishing of I(self)
 Physical senses poised all at once
 With the arrival of the great king
 Enlightenment Inspecting no man's land
 Everything vanished soul remained
 The burning self without I
 The atman!



V.L.V.Vardhan
MA 1st year
2001550003



Well, this is the beginning of my journey, the journey to give back something to my mother earth for everything she has been doing. This is my story of sustainable development in lockdown.

Lockdown made us stay home, but it also gave us time and the opportunity to rethink our lives. It changed my perspective of seeing things. The sweet boxes, coconut shells, disposable cups, why not use them for something great? Why shouldn't I use those to grow some plants? Of course, I can, and I did. All they need is little care and love. They give you all they have in return. That is what is touching our earth. It always gives you back. The best part is getting to watch them grow. We can grow curry leaves, chillies, coriander, and mint leaves easily at home. We also reduce plastic usage by adapting sustainable development methods to our life like using steel straws, bamboo brushes, and combs, etc. Not only switching to a sustainable life we must make people around us know the joy and importance of that lifestyle too. This is just the beginning of my journey and there is a long way to go.

EVERY JOURNEY HAS A BEGINNING



Bhavana Tetalli
170031276, CSE

VOYAGE



V Naga Maheshwar Reddy
Challa, 170031327,
CSE

I crossed the first ocean at the beginning
When my eyes met yours
And for a second I felt that time had stood still
Unaware of the world around me
The second ocean I crossed afterwards
Desperately trying to grab your attention
But you avoided my gaze
Smiling as you always do
The third ocean I crossed later
Trying to stand out from the rest
Hoping you would finally notice me
And give me a chance
The fourth ocean I had to cross
When I opened myself to you at last
Waiting for your answer
Filled in a classroom of uncertainty
The fifth ocean I crossed
After months of pouring my soul onto paper
Handing you the key to my thoughts
Hoping you would cherish it forever
The sixth ocean I crossed next
When I talked to you under the starry night sky
Where the minutes I spent seemed to stretch into hours
Happier than I had ever been
The seventh ocean I crossed
After the silence became unbearable
And the thing I desired the most was...
to hear your voice again

Seven oceans I crossed
Each as difficult as the last
But I was willing to cross another seven more
If it meant reaching you even though I lost you

HELPLESS PLIGHT

I have a soul
huge for this world as a whole
but then, why do I not find
my brother's face to be kind ?
why am I not able to see,
the answers to his plea ?

I ask myself,
how to fill this empty soul ?
I need to know what it is
that I miss
each day I cry more & more
every second counts a wailing
life is sour...


I laugh aloud at him
when his helpless plight
is not beyond my ken
I did not give anything he seeks
but takes flight
before he asks

How queer ?
my soul is perplexed and craving
for what is missing,
to clear the desk of this neglect
and fill my empty soul
Yes, a glimpse
of what it is I miss
there is no substitute
and that is the magic of this

As if it fills everything to pacify
and now I wish all would glorify
this magic potion called Love
which I would not miss again
I vow!

**Sriya
Kanamarlapudi
200030965, CSE**

MOTIVATION IN THE MIDST OF CHAOS



let the sun go from the sky
and darkness cover you step by step
but don't stop believing that
there is another day...
a day of hope
a day of opportunities

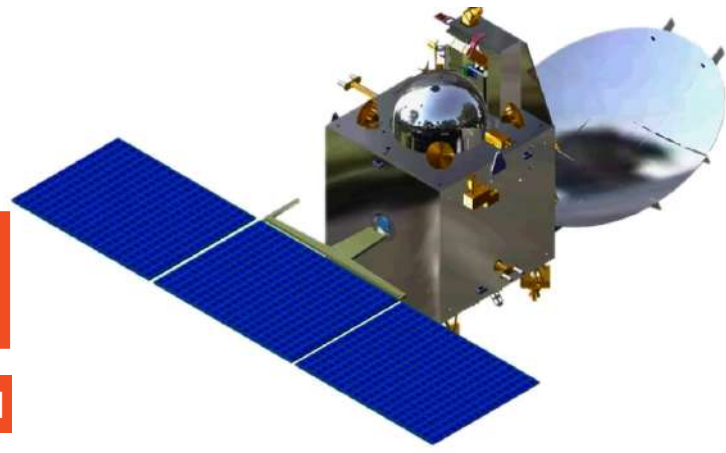
let the world go through chaos
just don't let them stop you from moving ahead
your progress can't be stopped
your growth can't be stopped
every step you take forward
lets you see a new version of yourself
believe me when I say, you are unstoppable



M. Sri Manasa
190032037, CSE

MOM

MARS ORBITER MISSION



ISRO (Indian Space Research Organization) has marked the first interplanetary space venture to Mars. Mars Orbiter Mission also called Mangalyaan has made Indians raise their chins towards the sky by making this mission successful. MOM was launched on November 5, 2013, using the Polar Satellite Launch Vehicle (PSLV) from the Satish Dhawan Space Centre. It arrived at Mars on September 24, 2014, and the spacecraft entered a highly elliptical orbit of $423 \times 80,000$ km ($262 \times 50,000$ miles), which allows it to take pictures of one entire Martian hemisphere at a time. The spacecraft's instruments are a color camera, a thermal infrared sensor, an ultraviolet spectrometer to study deuterium and hydrogen in Mars's upper atmosphere, a mass spectrometer to study neutral particles in the Martian exosphere, and a sensor for methane. MOM was proposed to test key technologies for interplanetary exploration and to use its five science instruments to study the Martian surface and atmosphere from orbit.

MOM's AIM

The mission is a "technology demonstrator" project to develop the technologies for designing, planning, management, and operations of an interplanetary mission. MOM has aimed to discover, explore and observe Mars surface features, morphology,

mineralogy, and the Martian atmosphere using indigenous scientific instruments. Further, a specific search for methane in the Martian atmosphere will provide information about the possibility or the past existence of life on the planet. Initially planned for a lifetime of 6 months, ISRO extended the mission to another 2-3 years in April 2015 because of the adequate quantity of fuel still left in the spacecraft. Till December 2015, the MOM had completed over 8000 orbits of Mars.

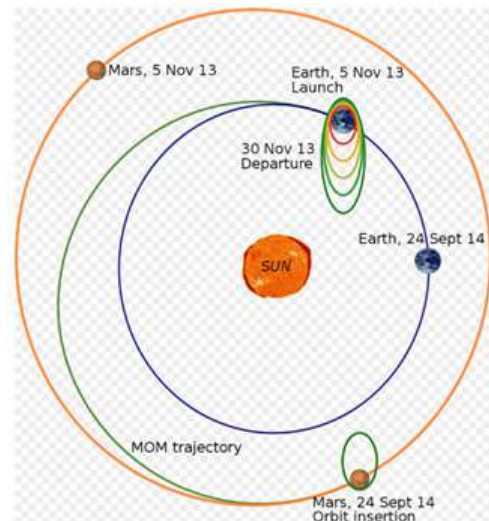
MOM'S SAYS...

My lifetime was about six months after I reached mars but by god's grace, I am still alive. It's 2 Martian years and till now I am on a mission to provide data to ISRO, to amuse you people about mars. So, what do you people think? Do you want to come to mars and start a new life over here or stay on earth and just read my article about mars?

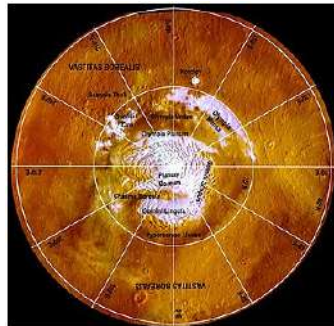
MY JOURNEY TO MARS

Anuradha ma'am has finally implemented her puri experiment on me, which made me throw out of earth and get placed inside the orbit of MARS. Let me describe the timeline of the journey to Mars.

On the 5th of November 2013, I was at Sriharikota, Andhra Pradesh. Keeping hopes of the people on my shoulders, I was launched to space. Later, I took 5 rotations around the earth and finally let myself go out of the earth's orbit by forming a trajectory on 30th November 2013. It took me 10 months to reach the orbit of Mars. At last, on 24 September 2014, I inserted myself in Mars's orbit. So, now I am still over there, taking the amusing pictures of this red planet.



Are you excited to see the pictures!



One of the first images of the surface of Mars taken by MOM on 25 September 2014.

North Pole

MOM's Spacecraft

My life's proudest moment was when you people used 2000 Rupee note which has my picture. Yes, that is me. Have you ever noticed it?



The Mission is primarily a technological mission considering the critical mission operations and stringent requirements on propulsion and other bus systems of spacecraft. It has been configured to carry out observation of physical features of Mars and carry out limited study of Martian atmosphere with the following five payloads:

- Mars Colour Camera (MCC)
- Thermal Infrared Imaging Spectrometer (TIS)
- Methane Sensor for Mars (MSM)
- Mars Exospheric Neutral Composition Analyser (MENCA)
- Lyman Alpha Photometer (LAP)



MOTHERS OF MOM

“Indian women have taken India to Mars”. The team behind this mission were none other than women scientists. It’s often said that “men are from Mars while women are from Venus” but following the success of the Mars mission, many dubbed India’s women scientists the “women from Mars”.



Anuradha TK, Geosat Programme Director at Isro Satellite Centre



Nandini Harinath, Deputy Operations Director, Mars Orbiter Mission



Ritu Karidhal, Deputy Operations Director, Mars Orbiter Mission

The ecstatic women were scientists and the photograph challenged the stereotype that rocket science in India was a male preserve. Combining days and nights have resulted in pride to the nation. The mission began in April 2012 and the scientists only had 18 months to capture Mars.

“It was a very small window, so the big challenge was to realize the project at that time. We had no heritage of interplanetary missions, so we had a lot to do in that short period.”

CONCLUSION

MOM- Mission Orbiter Mars is just not a mission but a project which combines the whole nation. It’s the incarnation of the masterminds who made our country proud. A remark of a space scientist. MOM is the emotion of the Indian Space Research Organization which has proved its standards and got its world recognition. The cheapest and best project which has made our country touch Mars. MOM has lent a hand to remove the stereotypes of society related to women which is the remark for “Women is the source of success”.



**Velaga
Valentina
190031720**

MARS -notEARTH

A long time ago in a galaxy not so far, far away, there was this one planet named Earth. It wasn't the only planet that was in existence. There was this red looking, hot and not at all suitable life planet called Mars, a planet that can only be survived by Matt Damon. Earth and Mars were like brothers and one day they fought over who was the large one and as you know out of anger Red lost his cool and sent an asteroid to Earth. That was the time when the Dinosaurs were in the middle of a race figuring out who was the fastest. Little did they know that their 'race' was about to come to an end. That was 'the asteroid' that brought extinction upon the 'Dinosaur Race'. [-PUN INTENDED-]. Yes, it was Mars the whole time. Just Kidding! I'm warming up. I heard from a Wise Man that if you ever feel nervous about stuff, just imagine everyone... you know... Since this is an article, I'm letting everyone imagine Dinosaurs... you know... although historically and textbook-ally they're already... you know...

A Planet with no known living organisms, no pollution, no nosy neighbors, no religion (at least not in the beginning), no politicians (at least not those who don't know how to climb stairs), no racism, no sexism, no ageism, no 'ism' of any kind, no DC, no TikTok, no Mark MAMA (at least not until he is released from the prison of Azkaban), no more illogical sequels for Kong and Godzilla. Doesn't it sound good? It does for a minute when you don't consider the other column. No

food, no water, no plants, no shelter, no proper atmosphere, no rivers, no pets. It might not even be the start, but it is something.

You see, starting something new is never easy, it is just as hard as ending something. but the thing is you have hope when you are about to start something new. That is the very hope that keeps you pushing forward in a World where there is no scarcity for says. Let's make up... Sorry... Let me make up some fake scenarios where I'll put myself in the shoes of the legendary ambassador of fair and lovely, Thanos, and try to cook up some escape plans.

When we are done with Earth, chances are that we are going to take over Mars (not in an alien invasion kind of way). But you can't just take a rocket and fly off to Mars. You are not Elon Musk. Keep that in mind. It's the hard work and effort of many that lets you count on the hope on which you bet your future. Everyone gets a chance to redeem themselves and start afresh. That is something that can bring peace to those who have been trying to make amends their entire life.

Moving to Mars has always been my dream until I learnt that you can't just go and live there. It's not exactly moving towns but there are some similarities. It's a new place. You only know a limited number of people. You are given a radius which must not be crossed at all costs. You might also face some hot-water problems. You feel insecure about being yourself (not because aliens would be



watching but that is also on the table). Getting familiar with the routes and maps. Transportation problems. Feeling lazy only because you're afraid to go out and make some new friends. These are all the hurdles that you need to overcome to feel home again. But one thing is it is never going to be the same. When you start to accept the fact that it is never going to be the same, you see the World with a new hope. That is exactly when you know you've learnt to grow past stuff.

This just hit me and I don't want to be the only one with this thought, what if we try to bury a dead body on Mars. You think it's going to be decomposed or it's going to rot there for a thousand more years until some microbe comes into play. You see, when this thought hit me, I didn't at least try to think of any solution, because I wanted it to be that question without any answer. Then those holy solutions that I didn't think of slid into my DMs. I am not going to mention those solutions here, because I might seem sadist, which I am aesthetically not. Every question always has an answer. You just need to process your thoughts in its way. Only then you get rational solutions even for the irrational questions.

How do you think we're going to find solutions for the problems that come as a surprise when we're on Mars? You can't just go into the bunker and you know take your time and binge watch some dark comedy (most probably the office) and then show up after two years with a solution that was outdated. For a second, let's assume that the solution works, but do you really believe that your bunker is always going to be safe. So, we send machines that give us data and we analyze and stuff and create

fake scenarios and try to tackle them in the best way we can. That is exactly what we do in our life when we are expecting some trouble. Make up some fake scenarios like Kevin Hart did in his Netflix Special Irresponsible and try to enact them in our mind over and over again trying to find out some lame way that could get you out of the scene with least DAMAGE.

What do you think the failsafe is going to be when all goes south on Mars? I would say closing eyes and waiting for help (if you still can) is one option. And there is this other option called reading-this-article. The second option is a better one, because it gives you peace faster than anything else in the World.

So, that's it. This article is only directed to adults who can vibe on a different level of Sarcasm. Hoping you're not one of them. Because if you can vibe on that level of sarcasm, not even this article can save you.

Those who are reading this to learn something, just keep in mind that there is always a failsafe.

So Long...
-Mesopotamian



**Unnava.
Vamsi
Krishna
190031655**



WHAT ARE YOU, DEAR MARS ?

ever heard of a rose which blooms in the cold?
 covered in the clouds of star dust and such
 lifeless it was beside a blue pearl
 was it fiery? was it cold?,
 we would never know for it's abandoned
 abandoned was it? or brand new?
 for they neither found bones nor growth
 tunnels of rock where death awaits
 or waves of mystic life awaits
 I'll send for you when the curtain of cosmic flowers drop
 what was it you say again
 it is endeared by many names
 The red planet, the dead planet, Mars



C. Syvalya
190030281



FOCUS

FORUM OF COMPUTER UPCOMING SCHOLARS

FOCUS is a student body which addresses every problem students face and brings the finest solutions for them. Also, it acts as the voice for the student who's part of the department. FOCUS empowers students to stay updated with the path breaking technology in the current world, it is the ideal platform for the students to exchange their ideas and enlarge their knowledge. Also, it gives opportunities for students to know how Teamwork works. FOCUS has been working effectively since 2013. 8 different teams worked till now and the only cause to work in that way is to make FOCUS a better student body that stands for students in the CSE Dept. We're proud to say that FOCUS is completely a student-driven body where they manage to gain the very minutest things like small collaterals to the major things like getting a huge number of sponsorships that uses our work in connecting different events and activities. So, coming to the different events we conduct, we have 3 different kinds of events. Like, CEA Activities, wherein we go to villages, conduct surveys and do awareness programs to help them out with recent technologies that can help them in their day to day life and the other is hobby club activities. So, they are non-academic competitions we conduct like dancing and singing or painting which students take up as hobbies. And coming to the second thing, we have technical and non-technical events that we conduct in college as part of the FOCUS. So, mainly we conduct different coding events, we have ted talks, and also, we conduct some orientation programs on the new technologies like cybersecurity, cloud computing, big data and all the different technologies we have. And coming to the main thing that the FOCUS does, there are these national level techno-management fests

IGNITE and #INCLUDE in which we have different kinds of technical events, non-technical events, workshop on the upcoming tools, hackathons and also bring some internship opportunities for the students in the college. And FOCUS provides fervid opportunities to all the students in the department and the students who work in it as team members. This lets students design and participate in different things that happen as a part of FOCUS which makes them learn through practice. This is not just a learning experience, but a major takeaway that we take from our college life and can cherish forever. That's FOCUS for you. And as said earlier, this is one of the best learning platforms you're going to ever come across. Events conducted by FOCUS in recent days are:

INTERNATIONAL CONFERENCE

International Conference on "Intelligent & Smart Computing in Data Analytics" (ISCD 2020). Despite the obvious challenges posed by the pandemic, the Department of Computer Science & Engineering, in collaboration with Springer has conducted an international conference in online mode on 3rd, 4th and 5th October 2020. The multi-track conference was organized to provide a platform to researchers, academicians and industrial professionals from all over the world to present their research results and development activities in the areas of Smart Computing, Data Analytics, Data Security & Advanced Computing. Pre-conference workshops were also conducted to facilitate the students and participants to upskill themselves on 3rd October. A bright inauguration session was held on 4th October marking the start of the conference where many participants enthusiastically presented their accomplishments and engaged in active learning for two days. The whole event left the department with indelible memories of what a heaven of learning and technology it has been.

SDP-1 48-HOUR HACKATHON

Team FOCUS conducted a 48-hour hackathon that harvested ideas, knowledge and took technology to the next level.

Hackathon's Inaugural is conducted in Cisco

WebEx meetings with the Chief Guests being N. Sriram, Director – Artificial Intelligence & Analytics, Cognizant Technology Solutions. This Inaugural event has been followed by Instructions about the Hackathon and motivation speech by our respected Head of the Department, CSE, Mr Hari Kiran Vege Sir. Later on, Reviews are taken for every individual team in Microsoft teams and Panel members have evaluated and shortlisted the teams having utmost innovation in their idea and also the teams that included academic concepts in their project. The Grand Finale is conducted in Cisco WebEx meetings and all the teams who are shortlisted to the Grand Finale are reviewed by our Head of the Department, CSE, Mr Hari Kiran Vege Sir and Mr P.B Ramachandran, Associate Director, Cognizant - Academy. It has been a very great exposure for the Y19 batch students, and they were able to know about how industrial projects are taken care of. This 48-hour Hackathon concluded with a Vote of thanks by Mr Narasingarao.



P.B RamaChandran Garu and Mr. Hari Kiran Vege Sir during the Grand Finale of 48-hour Hackathon

CODEQ

Team FOCUS conducted a technical event "CODEQ" on 06/02/2021 i.e., Saturday. This technical event was hosted in hackerrank as all students can get access to attend it wherever they are irrespective of their surroundings. The motto of the event is to ignite the enthusiasm of programming in the young minds after the pandemic. A total of 315 students participated in the event and showcased their programming skills. Many students found the event interesting as they got the chance to work on different kinds of problems at the same time and it helped them in practising their coding skills and improvising the concepts and basics of coding.

PULSE

The student association of Electronics and Communication Engineering (ECE) PULSE is a small effort to recognize great talents, a platform to enhance and nurture one's skills, a path for student's progress. It is not only an opportunity for students to enhance their talents but it's a place to find something which can give value and meaning to student life.

TEJOMAYAM

What can we give in return to our teachers who taught us everything, only we can give our success or some felicitations? So tejomayam is an event where a teacher is being felicitated and provides them with some enjoyment to participate in some fun events. It is a fest celebrated for teachers who shows us the right path all the time. Finding the right words to thank a teacher is quite a task, "A teacher is a compass that activates the magnets of curiosity, knowledge, and wisdom in pupils." This is the best way to express our gratitude towards them. We conduct fest by having some cultures, games for our teachers.



ICONIC ENGINEERS

ICONIC ENGINEERS is the platform provided by Team PULSE to the students to showcase their talent and expose it to the world. It is not only an opportunity for students to enhance their talents but it's a place to find something which can give value and meaning to student life.

“Picto Trace” is the first round that covers a program describing the functionality and the real-time examples of a picture displayed and the area in which that is used. This round even happened for 10 members at a time. Round 2 consists of describing the main 4 technical aspects : Favourite subject, Inspired & best project, Favourite domain, and Advancement and challenges of the favorite domain of a student. This round is completely focused on one’s point of view and named it as “Open Talk”.



Iconic Engineers
By Team Pulse

Fill the form to register
<http://bit.ly/iconicengineers>

For more details
PASALA.NIRMALA DEVI
+91 8466916477

[/pulsekl](#) [/kLece](#)

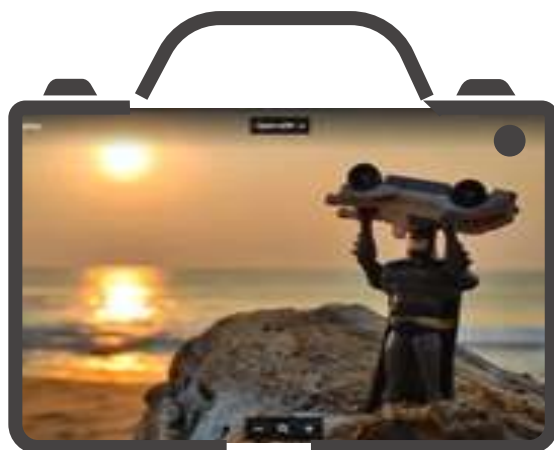
IDOL OF ECE

What can give the feeling for a student of standing top among all others as part of every activity? A similar event like this is IDOL of ECE, where a student is made to prove his capability in every aspect and show his worth. This is the event to cheer up the students conducted by the Student body of ECE (PULSE). The main motto of this event is to change the student perspective of mind on academics and to make participation in extracurricular activities. It provides enjoyment as well as knowledge. It is fun as well as giving those loads of knowledge of all types of skills like managing, participation, communication, teamwork, etc. It is an honour to be an Idol for the whole department; this encourages the students in the future to take any step with belief.



PHOTOGRAPHY CONTEST

It is the platform provided by Team PULSE to the students to showcase their incredible talents and expose it to the world. A photograph is the best way to express one's feeling when there are no words left. It's the story we fail to put into words. It is an event where a person has a chance to prove his photography skills and he/she had a chance in expressing the meaning and theme of the photograph. This is the event to cheer up the students conducted by the Student body of ECE (PULSE). Our 2021 PHOTOGRAPHY CONTEST asked for photographers to submit photos with any theme. A photograph can be taken by any person; it is a way of feeling, touching or loving it. It captures every littlest moment that our eyes couldn't.



Webinar on NI Labview & KLUG Projects in trending technologies

This Webinar is conducted with the coordination of KLUG and NI LABs about and expo with evolving technologies. There is a talk with speeches by speakers and presentations by students. This webinar gives students the opportunity to continue to reach their target group when the broadcast is over, since each webinar can also be watched on-demand. This enables them to increase both the reach and the impact of the message.

Discussion on current pandemic situation with Dr.Sucharitha MD, Pathology

The recent outbreak of COVID-19 in several countries is similar to the previous outbreaks of SARS and MERS.

Team PULSE is providing an opportunity to increase the knowledge and awareness about the rise and impact on current pandemic situations with Dr. Sucharitha, MD, Pathology.



ACTIVITIES /EVENTS



VARNA CLUB

“Painting competition” through online

This is an Institutional Level painting Competitions held online. Organized by Hobby Clubs in KLEF, students have registered their names and sent their painting sheets online. The certificates were issued for participants. The competitions were coordinated by Dr. Subhakar Raju, Professor Incharge of Hobby Clubs. Dr.Habibullah Khan, Advisor Student Affairs, Dr.K R S Prasad, Dean Student Affairs.



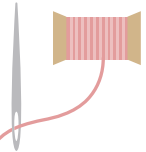
Pulavarthi Geethika
2000620058
AG.B.Sc- I place



Amirisetty Sai Naga Pavan Kumar
B.Arch –II place



A.Lalasa – 2000540022
Bsc(vc) - III place



Embroidery Workshop

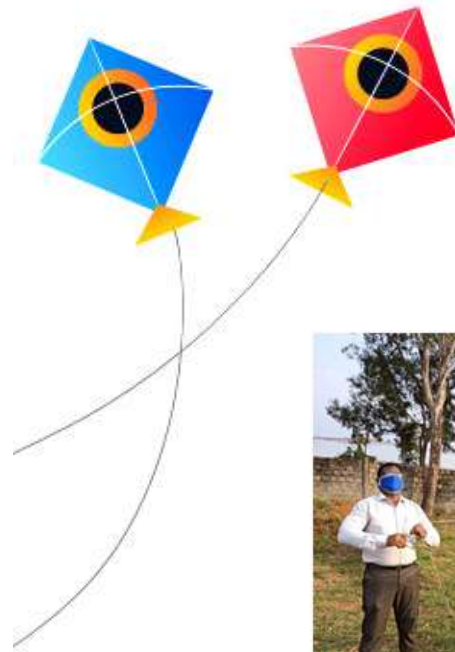
KL Deemed to be University (Koneru Lakshmaiah Education Foundation) Vayana Club of Hobby Clubs has conducted “Embroidery Work shop” at Gudimeda Village from 15-02-2021 to 27.02.2021 at KLEF. The trainer Mrs.Y.Vijaya has conducted Embroidery workshop to Gundimeda village womens under skill development programme to the rural women, so that this vocation training will be beneficial for self development. Certificates were distributed to those participating in the Embroidery workshop, Dr. Habibullah Khan Advisor Student Affairs, Dr.K.R.S.Prasad Dean Student Affairs, Dr.K.Ravindranath Associate Dean, Dr. R.Subhakar Raju Prof.Incharge Hobby Clubs have appreciated the participants.





Kite Festival by Hobby Clubs

In view of the Sankranti festival, students of K L E F have jubilantly participated by Flying kites of different shapes. All department students and staff have participated to make the sky colourful with flying kites. As a part & parcel of the festival fire was lit as a mark of festival starting. Kite festival event was coordinated by Dr. Subhakar Raju, Professor Incharge of Hobby Clubs. Dr.Habibullah Khan Advisor Student Affairs, Dr.K R S Prasad, Student Affairs, Dr.K.Ravindranath, Associate Dean, Extension Activities, Dr.R.Subhakar Raju Prof In-charge Hobby Clubs appreciated the students.





72nd Republic Day Celebrations by KL

The 72nd Republic Day has been commemorated in OAT of K L E F. The chief guest of the day Hon'ble Vice Chancellor Dr.L.S.S Reddy was invited to hoist the national flag for which he was honorably accompanied to the venue with NCC cadets escort and Marching while the band was played. the entire faculty and students were on the ground awaiting the chief guest. As soon as the chief guest arrived, the Hobby Clubs Incharge accompanied the chief guest to the Flag hoisting mast. When the flag was unfurled, immediately the national anthem was played. The chief guest has delivered his message on the occasion. Later on, Swara club, Narthana club students have given performances with Patriotic songs. Sweets were distributed as a mark of joy. Everybody enjoyed the cultural events in OAT where a national song was sung for inaugurating the event.





Rangoli Competition on the occasion of Sankranthi Festival

This is an Institutional Level Rangoli Competition held on 8th January 2021 organized by Hobby Clubs in KLEF. Students have registered their names through an online registration form and the Rangoli competition was coordinated by Dr. Subhakar Raju, Professor Incharge of Hobby Clubs, Dr.Habibullah Khan Advisor Student Affairs, Dr.K R S Prasad, Student Affairs.



MOVIE MAGIC-21 A National Level Short Film Contest in online mode

The Great Gambling



Nee mate na nirayam



Jai Jawan Jai Kisan



Interesting Facts About MARS!

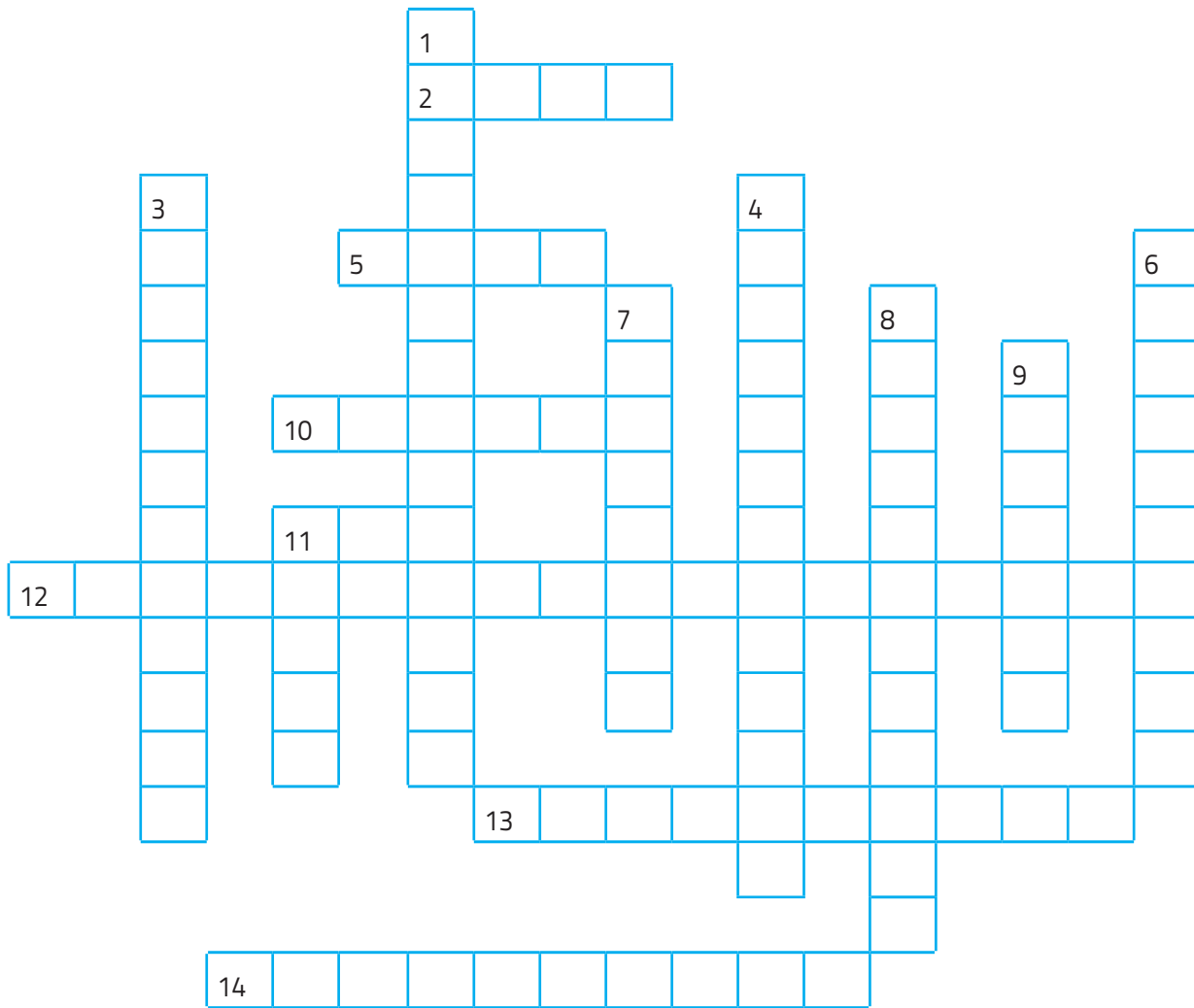


1. Did you know? Mars's gravity is 38 percent of Earth's. So, if you weigh 60 pounds here, you'd weigh about 23 pounds there. So, it is called Diet Planet
2. Did you know? At the equator, Mars is a comfortable 80 degrees Fahrenheit, but the temperature at its poles can get down to 199 degrees below zero.
3. Did you know? Iron-rich dust gives its landscape a rusty-red colour. So, it is called as "Red Planet"
4. Did you know? A Martian day is about 40 minutes longer than a day on Earth.
5. Did you know? Mars is the second smallest planet in the solar system after Mercury. With a diameter (distance through the middle) of 6,791 kilometres, it's roughly half the size of Earth.
6. Did you know? It can get pretty cold on Mars — much colder than our planet, since it's further away from the sun. At the equator, temperatures can reach 20°C, but at its poles, they can plummet to as low as -140°C.
7. Did you know? Mars is home to the highest mountain in our solar system — a volcano called Olympus Mons. Standing a whopping 24 kilometres high, it's about three times the height of Mount Everest!
8. Did you know? There are bits of Mars here on Earth! In the past, asteroids hit the Red Planet, sending debris into space. Some of this debris landed on our planet as meteorites.
9. Did you know? Mars has two moons! One is called Phobos and the other Deimos.
10. Did you know? The first spacecraft to land on Mars was the Viking Landers, which touched down on the surface in 1976.
11. Did you know? Mars has only a thin atmosphere, with a surface pressure less than a hundredth of the Earth's. Even worse, it is 96% carbon dioxide with only about 0.1% oxygen.
12. Did you know? Mars has about 15% of Earth's volume. To fill Earth's volume, it would take over 6 Mars' volumes.



G Sai Chinmayi
190030468

MARS



Across

2. National space agency of the Republic of India
5. The red planet
10. Bowl-shaped depression, or hollowed-out area, produced by the impact of a meteorite, volcanic activity, or an explosion.
12. India's first interplanetary expedition
13. Movie based on mars.
14. The envelop of Gases surrounding the planet

Down

1. Who is the founder of ISRO ?
3. Where did Perseverance rover land on Mars
4. Movie based on India's first interplanetary expedition.
6. Which was the first rover to land on Mars?
7. First successful mars mission
8. a rocket-launched spacecraft able to land like an unpowered aircraft, used to make repeated journeys between the earth and space.
9. The force that attracts a body toward the center of the earth.
11. Motor vehicle that travels across the surface of the planet upon arrival.



S. Pavan Sai
190031547

 PHOTOGRAPHY



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170030961



D. Surya Narayana Sarma
190030384



M. Bhavya Tejaswi
180040196



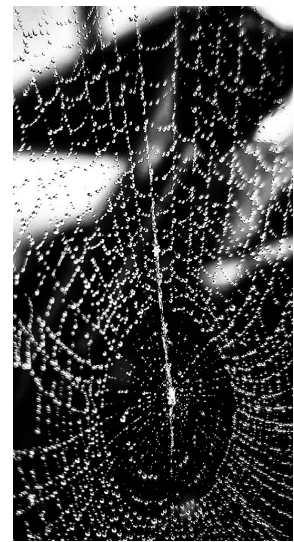
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Pranay kanala
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Sai Sailendra Chitturi
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Y. Mallik sai Pavan
Kumar 190031813

ART



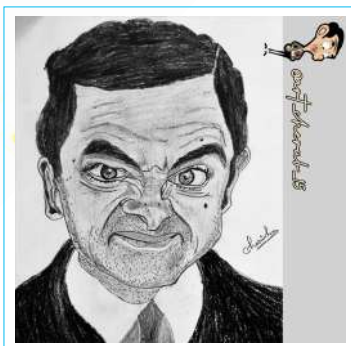
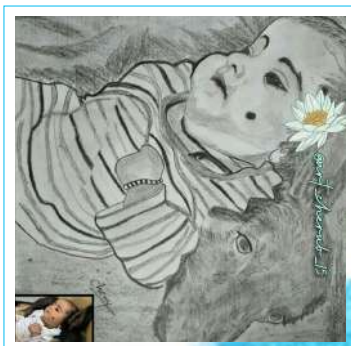
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Dr. E. Sridevi,
Associate Professor, CSE



G. LIKHITHA
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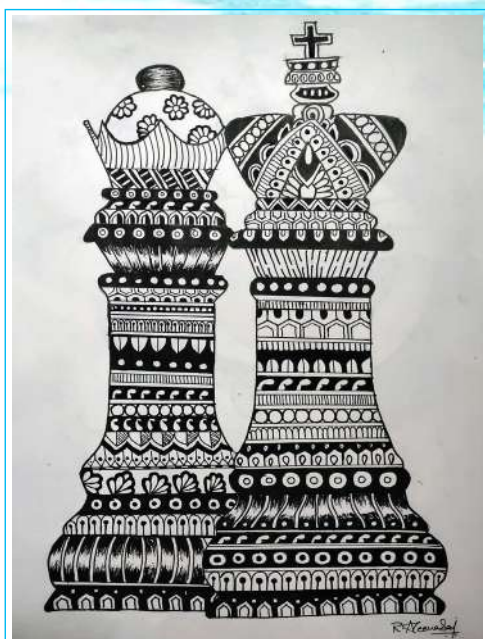
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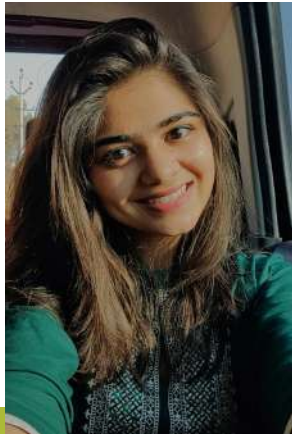
P. Yamini
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RAJENDRA LEENA SAI
190031884

TEAM MAGAZINE

"Choose Joy."



Ananya D Mehta
190520002

"May the future be known for its kindness"



Hema Sanga
190030593

"Remain soft especially when the world is tough"



G Sai Chinmayi
190030468

"I tend to create opportunities rather than wait in line and search for that."



G. Sheshank Mouli
170050036

"Whatever YOU ARE, be a GOOD one."



Lahari Yadlapalli
190031777

"Set yourself free"



M. Krishna Vamsi
190031084

*"Take notes on life,
no lesson is worth
learning twice"*



MNVA Siva Ram
180040234

*"Treat people with
kindness."*



P.S.V.P. Aishwarya
190031297

*"Let positivity be your
shield"*



Rohith Godavarthi
190030507

*"This world is truly
magnificent when you
allow yourself in it."*



S. Pavan Sai
190031547

*"Don't die until you
do!"*



S.V. Dharani Reddy
190020023

*"Be the light but never
forget the darkness"*



Sri Vatsa
170050119

*"There's no point in
worrying about the things
that you have no control
over. Take a deep breath
and relax."*



K. Goutami
190020030

*"Strive for progress not
for perfection"*



T. Thanmai
190031642

*"May the fireflies
follow you, where the
butterflies do not."*



Valentina Velaga
190031720

*"Every journey starts
with a decision"*



K. Anudeep
190070036

*"Life is stranger than
anything the mind
could invent"*



Vishnu Makham
170040505

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KL UNIVERSITY AWARDED INDIA WORLD RECORD FOR SAMYAK-2021



SAMYAK
India's Largest Techno Management Fest

Samyak-2021 Organizing Team

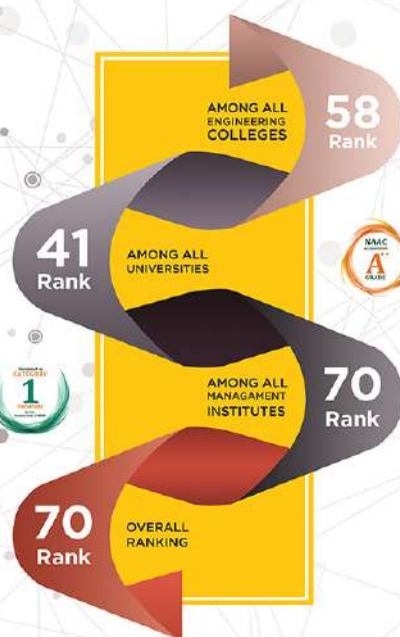
Cordially Welcomes
Guests



Includes IIT's, IIM's, IIIT's, IISc, NIT,
State & Central Govt. Institutions

nirf NATIONAL INSTITUTIONAL
2020 RANKING FRAMEWORK

(Ministry of Human Resource Development, Govt. of India)



Vachas