



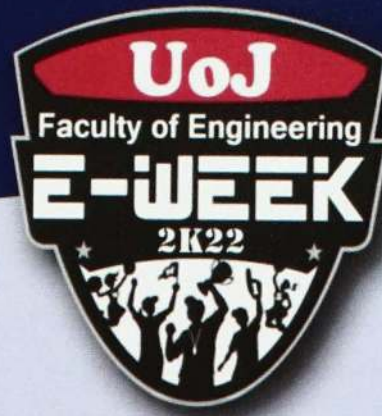
E-WEEK

SOUVENIR 2022

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FACULTY OF ENGINEERING | UNIVERSITY OF JAFFNA

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அச்சுறுத்தல்



E-WEEK SOUVENIR

2022

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FACULTY OF ENGINEERING
UNIVERSITY OF JAFFNA

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MESSAGE FROM THE DEAN



Dr. Kandasamy Pirapaharan

Dean, Faculty of Engineering
B.Sc.Eng. (Peradeniya), M.Eng. (Kindai), PhD (Kindai), C.Eng (UK)
MIEEE, MIET, MIE(SL)

It gives me immense pleasure to write the message for the E-WEEK Souvenir, marking a momentous milestone in the journey of the Faculty of Engineering University of Jaffna. A time like this calls for celebration as well as deep introspection. Having established in the Year of 2013, Faculty of Engineering, University of Jaffna has already become one of the premier engineering education institutions of the country with the intake of around 200 students per year.

Faculty of Engineering, University of Jaffna has been loyally fulfilling its functions by offering four specialization programs in engineering. It is beyond question that Faculty of Engineering, University of Jaffna will continue its quest for excellence in providing Engineering education for the students from all 25 districts in Sri Lanka. It has been carrying out the task of critiquing the student society while working towards a closer coordination with industry to promote the employability of our graduates. To assure the quality of our graduates, the institute of Engineers Sri Lanka (IESL) has already recognized three of our specialization programs from the first batch of students while processing the fourth program. Going forward, it will continue in the noble task of training engineers for the development of the Nation, paying special attention to the improvement of social & economic well-being of the people, their intellectual development, academic and cultural enrichments while finetuning its curricula and syllabi towards the goal of producing employable human resources and creation of job opportunities.

E-WEEK is one of the notable event organized by the students' community of the faculty to promote liaison between student community and the society to enhance the leadership qualities of the students while endorsing the community service by the student society. I have this opportunity to applaud everyone who contributed for the success of this -WEEK event that gives the appreciation to the faculty from the society .

MESSAGE FROM THE SENIOR TREASURER, ENGINEERING STUDENTS' UNION

Dr. A. Anburuvel

Senior Lecturer Grade I,
Department of Civil Engineering
BSc. Eng (Hons) (Peradeniya), PhD (Hokkaido, Japan)

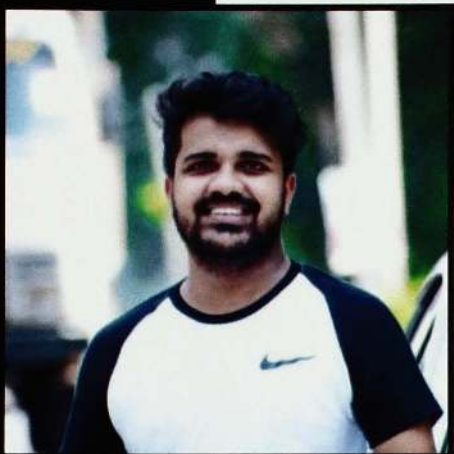


It gives me immense pleasure to pen a message to the E-WEEK souvenir 2022. E-WEEK is not just an event, it is a memory that would cherish in every student's heart even after leaving the faculty. I firmly believe that university education should not be confined to classrooms, lectures, assignments and examinations, which more or less contribute to the development of cognitive skills. To become a wholesome human, students should explore and engage themselves in extra-curricular activities during their stay in the faculty. E-WEEK is one such platform, which provides a perfect stage for the students to get involved in and to showcase their talents in non-academic activities.

State universities in Sri Lanka have comparatively ample opportunities for the students to engage in extra-curricular activities. Being a recently established faculty, Engineering, UOJ has its own limitations. Also, the pandemic and economic turbulence in the country have put us back in no time. Amidst these hurdles, E-Fac, UOJ students have resumed the E-WEEK again this year with their determination and hard work. This should be appreciated, and I'm quite sure that this experience will be a valuable lesson for their life.

I congratulate the organizing committee for successfully conducting E-WEEK 2022 and wish them all success.

MESSAGE FROM ALUMNI



Akila Eranda Jayasinghe Devanarayana

B.Sc. Eng. (Hons) (Jaffna), AMIE(SL), MIEEE
Lecturer,
Department of Engineering Technology,
Faculty of Technology,
University of Jaffna, Sri Lanka.

You have experienced the most challenging time in the past two years with Covid-19, and we can connect to your difficulties as a batch which had to pass through several challenges too.

But the important thing is that you made it through and came back with a stronger & better E-WEEK this year. We congratulate you for putting this event together and for continuing it as a faculty tradition, even during these extraordinarily difficult times for the country.

We believe that today's event and this whole week will be an affair to remember throughout your journey past graduation, similar to how we still remember and cherish our memories from E-WEEK 2016.

Keep up the hard work and team effort that you displayed during this week, we are sure that you will have seen that we are as strong as we are united and as weak as we are divided.

As the E13 Batch of the Faculty of Engineering University of Jaffna, we extend our sincere thanks to the E-WEEK 2022 organizers for remembering us and providing us with this opportunity.

We wish you all great success and prosperity in life.

Thirukkumaran A.

President
Engineering Students' Union



Our Engineering faculty has many highlight events and insights to be proud of. One of them is E-WEEK. E-WEEK is the feast for our students. Like the great occasions, it's an annual event that showcases the colors of our students. This is the one whole week in students each academic year they hibernate the academic activities as spend some time developing and improving their physical and mental health. This E-WEEK is not only about the events and games. The spirit is something different.

Apart from the other E-WEEK this E-WEEK 2022 is special because this year E-WEEK includes a workshop & guidance program for high school students about engineering basics for the future. This is a great initiative to extend the faculty pride to the whole island by focusing on future generations. This leads them to sharpen their vision of engineering and design.

This souvenir is the material that records our student's creatives and lets the community know what our students are capable of. Other than making memories these are best practices to be a professional engineer in the future.

As president of the engineering students' union, I wish all the students for a wonderful future, and may god be with them in their all endeavors.

MESSAGE FROM THE E-WEEK PRESIDENT



Keshikan B.

President

E-WEEK Committee 2022

It has been such an honor to be hosting this wonderful event, continuing to establish the legacy of E-WEEK. On behalf of the E-WEEK 2022, I would like to extend my heartfelt gratitude to everyone who made this event a success. E-WEEK 2022 has been a perfect amalgamation of students' efforts that provided a channel for reinforcing the bond among all the students and discovering of attributes within students.

Unfortunately, COVID-19 shattered the mirthful segment of university students' life. The rapid and unplanned change in teaching and learning in the online format brought by COVID-19 has likely impacted many, if not all, aspects of university students' lives worldwide. Student well-being was affected as it has been linked to their engagement and performance in curricular, co-curricular, and extracurricular activities, intrinsic motivation, satisfaction, meaning-making, and mental health. After a two-year period, I'm indeed glad to say that E-WEEK is happening at its best.

I applaud the effort of all editors of E-WEEK souvenir 2022 for compiling this wonderful journey of E-WEEK 2022. This souvenir echoes the enduring spirit built on a legacy and hopes it continues in forthcoming events as well.

My sincere thanks go to the Dean, Dr. Kandasamy Pirapaharan, for his unwavering assistance and constant encouragement. I would also like to convey my gratitude to the Heads of the Departments for their cooperation and assistance in organizing the event. My heartfelt gratitude goes to the Senior Treasurer of the Engineering Students Union, Dr. A. Anburuvel, and all the lecturers, and academic and non-academic staff who assisted in making E-WEEK 2022 a success. I sincerely appreciate the support of sponsors; your aid was instrumental in attaining our mission. I would like to thank the Jaffna Engineering Faculty Alumni Association, Engineering students Union and all fellow undergraduates of the Faculty of Engineering, University of Jaffna, without whom this event would not be possible.

Let us cherish the irreplaceable memories of E-WEEK 2022!

EDITORIAL NOTE

Welcome to the second edition of E-WEEK Souvenir!

We are really proud and exuberant to acclaim that we are ready with all new hopes and hues to bring out the second issue, which is going to surely unfold the unraveled world of the most unforgettable and precious moments of the E-WEEK 2022.

As students, we generally tend to feel less motivated with time after a prolonged engagement in academics. E-WEEK is a platform to spruce up the restless life at university.

This souvenir takes through enthusiastic write-ups of our young writers that are indubitably sufficient to hold the interest and admiration of the readers, the most memorable moments of E-WEEK 2022, a launch pad for the artworks, poetry, and much more. The magazine also espouses the students' spirit which is built up within the university through collective actions, thoughts, and aspirations.

This herculean task of editing this souvenir would not have been possible without the sincere support of the members of the Editorial Board who sorted the articles from the flood of articles we had got from our enthusiastic and inquisitive writers, edited them, and finally made a fair draft of them. I am thankful to all my colleagues who dipped their oars into the turbulent water of the journal and have sailed it to the shore of publication.

I am thankful to our respected E-WEEK organizing committee for entrusting us with the responsibility of editing. I take this opportunity to thank all the dignitaries for sparing their valuable time to send their best wishes for the magazine in the form of 'Messages'. I heartily wish all the readers my best wishes.

Wishing you positive new beginnings in 2023!

RINDUJA R.
RATHNAYAKE R.M.P.H.
GOWSIKAN N.

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E-WEEK 2022

WHAT IS E-WEEK

“Working for the melioration of the community while manifesting talents of the Engineering undergraduates” is the motto taken up for the 5th Annual Engineering week (E-WEEK) which will be conducted by the Faculty of Engineering, University of Jaffna at Kilinochchi premises, Ariviyal Nagar, Kilinochchi on the first week of January. Our objective is to identify and fulfill needs of the locality with sustainable methods that utilizes engineering insight and as well as to bring to light the skills of our engineering undergraduates. Some of the primary events which encompass in our E-WEEK schedule are the Q-FIESTA (quiz completion among school students), workshops and seminars for students.

HISTORY OF E-WEEK

E-WEEK is an event organized by the students of the Faculty of Engineering, University of Jaffna every year since 2016. But due to the pandemic situation this event has been called off for last 2 years. E-WEEK has been an integral and important part of the academic calendar of the faculty since its commencement. It is one of the main events of the faculty through which the faculty's fraternity gathers to show the world what they are made up of. E-WEEK opens the faculty to the public during which the society, school and the industrial communities get to know about the faculty and its facilities and achievements through activities like, competitions and other social activities.

MOTIVE OF E-WEEK

E-WEEK has been helping in exploring and encouraging talents of the undergraduate students, staff and the school students through a variety of activities and events held throughout the duration of E-WEEK. Pandemic situation in Sri Lanka caused students less concern in university's activities, therefore this event will create good interaction and motivation among students. E-WEEK also focuses on the development or giving something in return to the society the university operates in. To achieve this different social development campaigns like blood donation campaigns, quiz competition, educational workshop and seminar for the school children of the nearby districts are conducted. This annual event assists in enhancing relationships between the faculty students, staff and the society it operates in.

OBJECTIVES OF E-WEEK

Faculty of Engineering, University of Jaffna is a faculty with four batches having passed out. So, it is an utmost need of the faculty to show the world what the faculty's fraternity is made of and what we have achieved in this short span of time since its inauguration. E-WEEK 2022's main objective is to show the outside world what we are capable of and the fraternity of the faculty of Engineering, University of Jaffna. In a way E-WEEK 2022 will be a collection of different events and competitions are arranged to showcase the talents and achievements of the fraternity of the faculty and to bring out the new talents of the members of the faculty's fraternity. So, most of the events of this year's E-WEEK will be held with the intention of improving the fraternity of the faculty and the neighborhood around it through the skills and abilities of the fraternity of the faculty. And another important objective of this year's E-WEEK is to target on social improvement activities like blood donation campaigns, seminars, workshop for the school children of the nearby areas and quiz competition for the school students are also planned to be held this year too. It has been planned to expand all these activities a lot further for this E-WEEK. And another objective of this E-WEEK is to improve the unity and relations between the faculty staff and students.



Q-FIESTA QUIZ COMPETITION

A quiz competition conducted among the school students in the districts of Jaffna, Kilinochchi, Vavuniya, Mannar, Mullaitivu, Trincomalee, Batticaloa, Ampara and Nuwara Eliya in the memory of Prof. Thurairajah, with the objective of encouraging the school students to actively participate in their academic activities. The event is to be organized by Helping Hands Society of Faculty of Engineering university Of Jaffna.

WORKSHOPS FOR STUDENTS AND VISITORS

Workshops are to be conducted for the school students . They are to be conducted under each department and is organized by the Jaffna Student Chapter of the IESL.

Seminars for school children

Seminars are to be conducted for school children in the local vicinity of the faculty in order to improve their educational interests. The event is to be organized by Helping Hands Society of Faculty Of Engineering, university Of Jaffna.

BLOOD DONATION CAMP

A Blood donation camp is planned to be held at the Kilinochchi premises of University of Jaffna.

SPORTS ACTIVITIES

In order to develop the unity among students and staff of our faculty and neighboring faculties sports activities are also planned for this E-WEEK.

FINALE AND A TALENT SHOW

Awarding ceremony of all the winners and a talent show of the faculty members are planned to be held on the last day of E-WEEK

ABOUT THE FACULTY

It is a longstanding dream that comes true for the University of Jaffna and the people of the region with the establishment of the Faculty of Engineering. The faculty is enrolling its first-ever batch of students in 2013 and is willing to serve the nation in the years to come. The campus is located in Ariviyal Nagar approximately 7 km south of Kilinochchi.

HISTORY

The brief history associated with the establishment of the faculty spans 30 years. The first proposal to establish the Faculty of Engineering was made at the Senate, the University of Jaffna in 1979 and approved by both the Senate and the Council thereafter. A committee was appointed to explore the feasibility, which submitted a comprehensive report to the University Grants Commission (UGC) in 1980 recommending a Faculty of Engineering to be set up in Kilinochchi and be attached to the University of Jaffna. After a considerable delay, UGC approved the proposal in 1988 entertaining the intake for the academic year 1991/92.

Although several steps were taken by the University for establishing the Faculty at Kilinochchi, it had been delayed for years due to the unfavorable situation at the time in the region. In 2010, as the situation was improving in the region, the Senate and the Council of the University of Jaff-



na, the UGC, the Ministry of Higher Education, the general public, and professionals wanted to give top priority to the establishment of the Faculty of Engineering at Kilinochchi to fulfill the aspirations of the community. In this regard, the Senate of the University of Jaffna at its 353rd meeting held on 29th October 2010 appointed a sub-committee to study and report to the Senate on the establishment of the Faculty of Engineering. g. The committee submitted the proposal,

which the Senate approved at its meeting held on 03rd April 2011. The Senate decided to establish the Faculty of Engineering, adjoining Faculty of Agriculture, initially with the following departments; Department of Civil Engineering, Department of Electrical and Electronic Engineering, Department of Computer Engineering, and Department of Inter-disciplinary studies.



The UGC and Ministry of Higher Education subsequently endorsed the proposal to establish the Faculty of Engineering with the departments above and submitted it for Cabinet approval. The Cabinet approved the formation of the Faculty of Engineering and the Gazette notification of the same appeared on 5th December 2012

MISSION

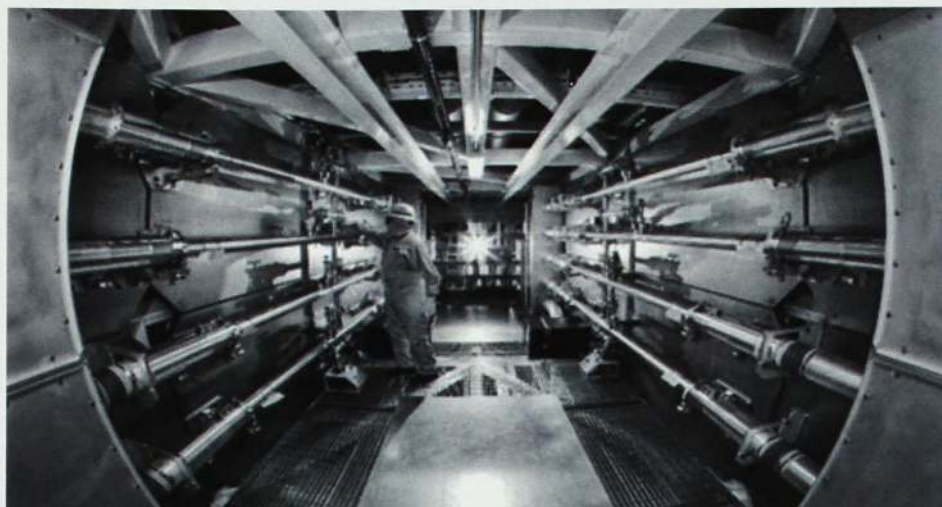
The Mission of the Faculty of Engineering is to foster and promote engineering nationally and globally by producing competent Engineers with social, economic, and ethical values, and environmental consciousness, who contribute to sustainable development

VISION

The Vision of the Faculty of Engineering is to become a preeminent center for discernment in Engineering education, research, and services nationally and globally.



NUCLEAR FUSION ENERGY



5th of December 2022, was a turning point in science and technology that took place at Lawrence Livermore National Laboratory (LLNL) in California. National Ignition Facility (NIF) team achieved net energy from ignition in a controlled fusion experiment than the laser energy used to drive it. They generated huge energy like what happens in the sun and the stars. The hard work of scientists and engineers in different parts for decades was achieved on that day. Fusion is the combining process of 2 nuclei and producing heavier nuclei with energy. The energy is produced according to Einstein's mass-energy relation ($E= mc^2$). At beginning, research conducted for fission reaction implied breaking a heavy nucleus that required more energy and also produced harmful radioactive particles. For these drawbacks fusion research was conducted. Many countries like the US, Russia, China, etc. involved in nuclear fusion energy generation research. In this experi-

ment, 192 laser beams with 2.05 Mega joules entered inside both ends of a "hohlraum", a small cylindrical structure. Inside the hohlraum, a tiny pellet with fusion fuel "Deuterium" and "Tritium" was placed. These laser beams were converted into X-rays, stroked the wall, and generated high temperature (100 million degree Celsius) and pressure (x 300 billion). Then these hydrogen isotopes turned into the plasma stage compressed and accelerated toward the center of the hohlraum. Among these deuterium and tritium nuclei, shock waves traveled and made them collide with each other. Finally, they fused and produced 3.15 Mega joules of energy with helium isotopes and excited high-energy neutrons. This is the very first time to obtain a positive net gain of nearly 1.5. These all processes happened in a fraction of a second with high precision.

According to previous research, this fusion process happened in 2 methods. They are inertial confinement fusion and magnetic confinement fusion. Above mentioned process goes to inertial confinement fusion type. But in previous and current research magnetic confinement method was followed. For this method, they used the equipment "tokamak" to confine the plasma and create a reaction platform. It's nothing but a donut-shaped pressure and heat resistance special container rolled with several high-rated current conductors to produce and control a strong magnetic field. Charged particles in plasma repel each other. These charged particles interact with a magnetic field. At high temperatures and pressure, plasma pressure is offset by magnetic pressure, confining nuclei, and letting them for fusion.

DO YOU KNOW?

In fusion reactions, approximately 80% of energy is carried by excited neutron particles. By making contact between these neutrons and the blanket neutrons' kinetic energy can be absorbed by this blanket. Then steam can be created by the heat energy collected from the blanket and can generate electricity by steam turbines to generate electricity.

Scientists and engineers are conducting further research to solve problems that arise during experiments like heat control, equipment damage by high heat, storing generated energy and connecting to the grid, reducing cost, and making the model simpler. The new generation will get zero carbon abandoned pure fusion energy source and fossil fuel usage will be ceased.

K.VITHUSAN—E19

அன்றைய இரவுப் பயணம்

காலையில் புடைசூழ குதிரையில் வந்தவன்
மாலையில் மறைமுகமாய் மதிலேறி மறைந்தான்

இரக்கமில்லாத அந்த இரவுப் பயணத்திற்காக;
மீண்டும் ஒருமுறை தன் காதலுக்காக
அந்தக் கானகத்தில் கால் பதித்தான்

முல்லையில் புகுகையில் விலங்குகளின்
முத்த முணுகல்களோடு
அந்த பெளர்ணமி நிலவின் கனத்த பால் ஒளி
இவன் தோள்மீது மோதி
அவன் வாளிட்ட இடமெல்லாம்.
சூழிட்டு நின்றது
சில்லென அடிக்கும் காற்றில்
சினுங்காரம் செய்திடும் சில் வண்டுகளின் இசையோடு,
விண் அழகியின் முகம் காணத்துடிக்கும்
ஆம்பல் மலர்களை கடந்து;
மண் அழகியின் முகம் காணத்துடிக்கும்
மாமன்னன் இவன்
தாழ் குலப் பெண்ணின் கார்புழல் காண
களளமாய் சென்றான் அந்த இரவில்

முத்து இருப்பதோ ஆழ்கடலில்
இவள் இருப்பதுமோ ஆழ்கடலில்
வள்ளம் வலிக்கையில் வந்து பிறந்தது
இந்த வசந்த காதல்
பேதையின் வதனம் காண்கையில்
விண் அழகியும் அடிபணிவாள்
வஞ்சிக் கொடியிடை வசந்தராணி
இவள் வாசனை மிகுந்த அல்லிராணி
அரியின் அரவங்கள் ஆழமாய் கேட்டிட
இன்னல் தரும் அந்த இரவில்
அவளின் எண்ண அலைகளில்
உருகியபடி முன்னேறிச் சென்றான்

MILKY WAY

The universe! A place full of hidden secrets & mysteries, everything physical in existence, all forms of matter, energy, planets, stars, moons, solar systems, black holes, galaxies, and even you & I are a part of this infinite universe.

Galaxies in this universe are made of a large group of stars, gas, dark matter & dust bound together by gravity. Our Sun and all the planets around it are part of a galaxy called, the 'Milky way' galaxy. Its length is about 100,000 light-years across & its width is about 2,000 light-years deep, and consists of 100 to 400 billion stars. Imagine 400 billion suns! No one, nor NASA can go out of this. One light-year means the distance a beam of light travels in a single earth year. That equals 9.5 trillion km! If you carefully observe a clear night sky with your naked eye, you may observe something like a huge unchanging cloud in the sky. That is our galaxy, Milky Way! It appears as a milky band of light in the sky when you see it in a really dark area. You may have a question if we are living inside the Milky Way, How can we observe it & capture it?

Considering shape, there are several types of galaxies, such as spiral, elliptical & irregular. The Milky Way is a spiral-shaped galaxy & it has four primary spiral arms emanating from its center with an unknown number of smaller offshoot arms. Actually, we're about 26,000 light-years from the center of the galaxy on the inner edge of the Orion-Cygnus Arm. We can see & capture our nearby Sagittarius arm, that's what is in the illustration above.

There are billions of other galaxies in the Universe. These galaxies interact with each other & creating new beautiful forms over millions of years. The Andromeda Galaxy is the nearest one that is bright enough to be seen by the naked eye on dark, moonless nights. Not in near future, but several billion years later, these neighboring Milky Way galaxies & Andromeda galaxies will merge into one giant new elliptical galaxy. Compared with all these massive things, we know one thing, Our Earth, the only home we have ever known is just a pin drop of this infinite universe.

Dulshani Somarathne

E18



**Premises photography Competition - Winner
Gowsikan N.**

E19

FIRST-YEAR STUDENT'S PERSPECTIVES ON ONLINE EDUCATION

We students also had to face the wrath of Covid 19. We had to stay inside and continue our studies through online classes. Needless to say, we all know how this affected our routine studies. Zoom & Microsoft teams became our study companions. A student's life changed dramatically from searching for knowledge to searching for network coverage. And I am aware that many articles reviewed these changes from many perspectives. So, I don't want to bore you with those very subjects.

I am going to discuss a different perspective on the topic. How does this affect First-year students who just started their undergraduate studies this year? I am writing this article as a representative of my batchmates. First of all, I would like to clarify one thing this isn't a typical article that includes research conclusions or real-time data alternatively it contains only the pure experience I faced as a first-year student. And I think our E20 batch has been forced to face a situation most of our senior students didn't, which this starting our 1st semester through zoom classes. Because when this pandemic started, they had all already finished their 1st semester. But we had spent only a month on university premises which was mostly spent in quarantine. We have barely interacted with lectures most of our lectures who taught us our 1st-semester courses we don't even know them. We have never been in a laboratory. We missed some of our fundamental courses due to the impossibility of learning them through online

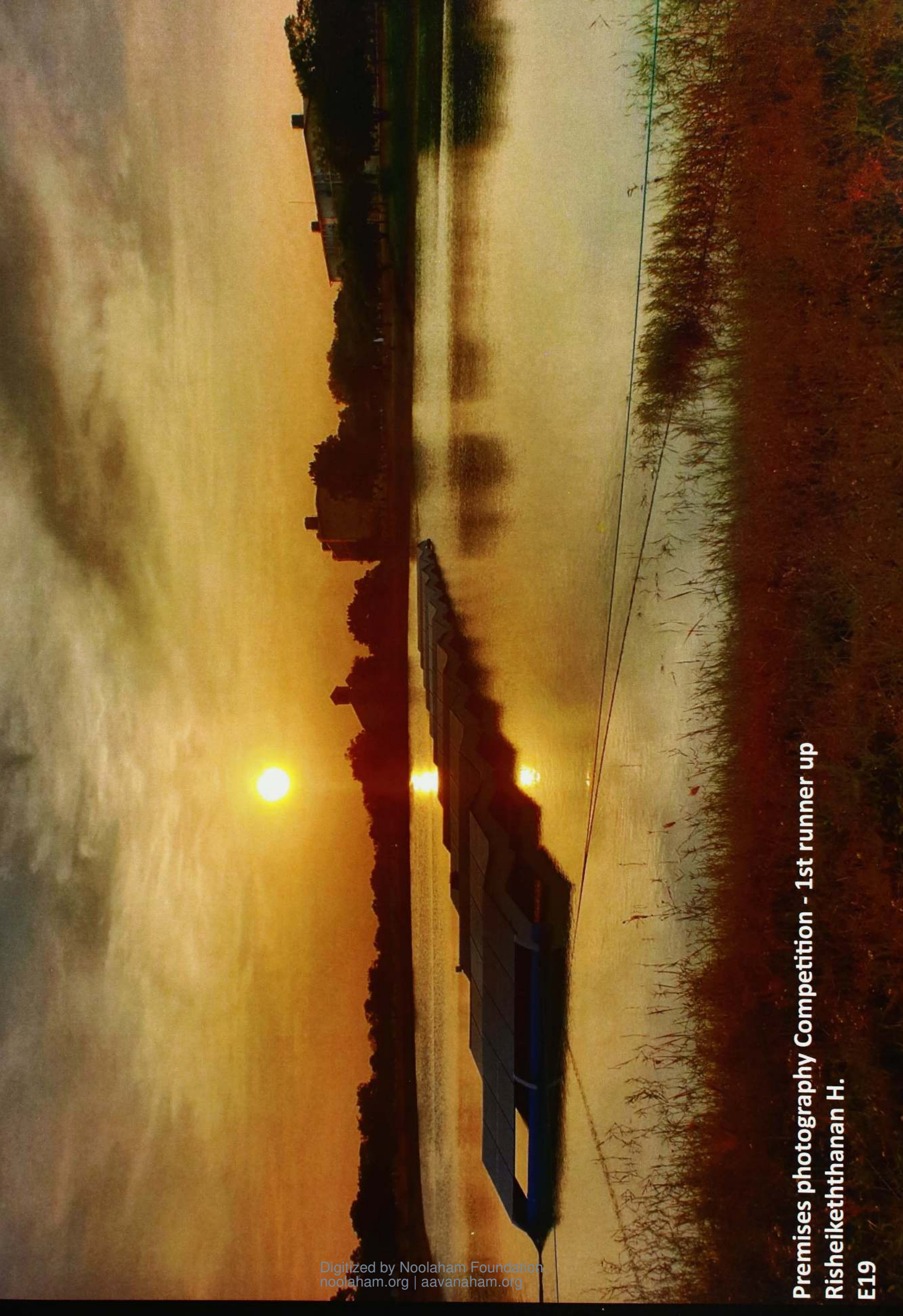
education. Unlike our seniors, we have missed a lot, not only education wise so many other activities also. But I can't deny that online education has given us some perks also, through classes we had that high ground of asking doubts through chats which would pose a difficulty, especially for 1st-year students who just started their studies in university, but in our case it online class proved some usefulness in this perspective. And I must admit that I enjoyed the relaxation in my studies which our seniors didn't have a chance to experience. Can't deny that we had our moments, having snacks, and surfing through social media during lectures is what most of us did, even if it's wrong.



However, one of my major concerns of mine I fear that we may be gets adapted too much to these online studies. I can't help myself but think this is better than live studies, the thing is over the time human gets adapted to the situation may be too much, can't blame us though it's human nature. With all given comforts of online studies, our minds may shift their course. This may be disturbing news but we can't deny this.

I hope this pandemic situation will be over soon, so we can have our normal lives back. Until then "Stay safe, wear your masks, and get yourself vaccinated when getting the opportunity".

Sajishvar—E20



IoT AND THE SOCIETY



The Internet of Things (IoT) is a rapidly growing network of electronic devices, buildings, vehicles, and other items that are embedded with sensors, software, and network connectivity, allowing them to collect and exchange data. The IoT has the potential to bring numerous benefits to individuals and society, including increased efficiency, cost savings, and improved safety and security. However, it also carries potential risks and challenges that should be considered.

There are thousands of benefits of the IoT for individuals. The major thing is increased convenience. The IoT can make our daily lives more convenient by automating tasks and providing us with real-time information and alerts. For example, smart home devices can adjust the temperature or lighting based on our preferences, and wearable fitness trackers can help us monitor our health and fitness goals. Improved safety, the IoT can also help to improve safety in a variety of settings. For example, smart security systems can alert us to potential intrusions, and connected cars can alert us to potential collisions or other hazards on the road. Increased efficiency, the IoT can help to increase efficiency in vari-

ous sectors, such as transportation, healthcare, and agriculture. For example, connected vehicles can communicate with each other and with traffic infrastructure to reduce congestion and improve fuel efficiency, and connected healthcare devices can remotely monitor patients and alert caregivers to potential problems. Cost savings, the IoT can also help to reduce costs by automating tasks and reducing waste. For example, smart agriculture technologies can help farmers to optimize water and fertilizer usage, and smart energy systems can help to reduce energy consumption and costs.

As long as the IoT continues to expand, the number of threats, risks, and challenges will continue to increase. One of the main risks associated with the IoT is the potential for privacy violations. As more devices collect and transmit data about our daily lives, there is a risk that this data could be accessed by unauthorized parties or used for unintended purposes. Security vulnerabilities, the IoT also carries the risk of security vulnerabilities, as connected devices may be susceptible to hacking or other cyber-attacks. This could potentially lead to data breaches or other cybercrimes.

As well as, the displacement of jobs is the main challenge that arises with the expansion of the Internet of things. The automation enabled by the IoT could also lead to the displacement of certain jobs, as machines and algorithms take over certain tasks that were previously performed by humans. This could have significant economic and social impacts, particularly for workers who may not have the skills or education to adapt to new roles.

IoT has the potential to bring numerous benefits to individuals and society, but it also carries potential risks and challenges that should be carefully considered. It is important to ensure that the development and use of the IoT are guided by ethical principles and regulatory frameworks that protect privacy, security, and the interests of society as a whole.

SISILA JAYAMAL - E18



Premises photography Competition - 2nd runner up

Thinisha Muthukumarana

E18

IS IT POSSIBLE TO RECREATE DINOSAURS FROM THEIR DNA?

Your DNA is different from everyone else's. It determines many of the characteristics that define you, like the color of your eyes or whether your hair is straight or curly.

DNA is much easier to find in the "soft parts" of an animal – their organs, blood vessels, nerves, muscle and fat.

But a dinosaur's soft parts are long gone. They either decomposed or were eaten by another dinosaur.



By : Safras M.S.M

Imagine for a moment ...

Just for fun, let's imagine that somehow, sometime in the future, researchers came up with fragments of dinosaur DNA.

With only fragments, scientists still could not make a complete dinosaur. Instead, they would have to combine the fragments with the DNA of a modern-day animal to create a living organism. That creature, however, could not be called an actual dinosaur. Rather, it would be a hybrid, a blend of dinosaur and, most likely, a bird or reptile.

What are Dinosaurs ?

Dinosaurs are considered to be the largest creatures that have ever lived in the earth. Further, the main reason for their destruction is the asteroid impact. There are ample of dinosaur Fossils found



What is DNA ???

DNA – which stands for deoxyribonucleic acid – is something in every cell of every organism that ever lived on Earth – including dinosaurs.

The trouble with 'dino-DNA'

But scientists have a big problem when trying to find DNA in dinosaur fossils. DNA molecules eventually decay. Recent studies show DNA deteriorates and ultimately disintegrates after about 7 million years.

That sounds like a long time, but the last dinosaur died at the end of the Cretaceous Period . That's more than 65 million years ago. Dig up a fossil today, and any dino-DNA within would have long since fallen apart.

That means, as far as scientists know, and even using the best technology available today , it's not possible to make a dinosaur from its DNA. Although it's too late to find dino-DNA, scientists recently found something almost as intriguing.

They discovered DNA fragments in the fossils of Neanderthals and other ancient mammals , such as woolly mammoths. Now that makes sense; those fragments are less than 2 million years old, well before all of the DNA would decay.



Is DNA in the fossils?

Dinosaur fossils are all that's left of those prehistoric animals.

Immersed for tens of millions of years in ancient mud, minerals and water, the fossils come from the dinosaur's so-called "hard parts" – its bones, teeth and skull.

We find dinosaur fossils in the ground, in riverbeds and lakes, and on the sides of cliffs and mountains. Every now and then, someone finds one in their backyard. Often, they're quite near the surface, and usually, they're embedded in sedimentary rock.

With enough fossils, scientists can build a dinosaur skeleton – what you see when you go to the museum.

With enough fossils, researchers came up with fragments of dinosaur DNA.

With only fragments, scientists still could not make a complete dinosaur. Instead, they would have to combine the fragments with the DNA of a modern-day animal to create a living organism. That creature, however, could not be called an actual dinosaur. Rather, it would be a hybrid, a blend of dinosaur and, most likely, a bird or reptile.

மறந்துவிடுமோ என்று சேர்த்து வைப்பதும்...
மறக்காதா என நிலையழிப்பதும்...

வான் விட்டு வந்த துளி ஒன்று
வீழ்ந்துடைந்து என் கால் தொட்டது.
கொஞ்சம் அதன் ஏக்கம் அறிந்து
கைகள் நீட்டினேன்.
குடையை இறுகப் பற்றியது மறு கை.

சாலையோர மரங்கள் பாதையெல்லாம்
தூவும் ஈர மலர்களை மிதித்து நடக்க
அத்தனை பிரியமில்லை என்றாலும்
நடக்கிறேன்.

நேற்றைய வான்
அதுவரை கண்டிராததாய் இருக்க
இன்று வானில் இதுவரை கண்டிராத அழகை காண்கிறேன்..
கடந்ததா?
காண்பதா?

இன்று பூத்திருக்கும் மலர்கள் வாடும்வரை
புத்தகத்தில் ஒட்டி காய்ந்த இதழ்களை ஸ்பரிசிப்பதா?

நாளை மீட்டுக்கொள்ள
புகைப்படம் எடுக்க
தொலைபேசியை தேடி சற்று குனிந்தேன்.
அதோ... அந்தி வானம் மறைந்தேவிட்டது.

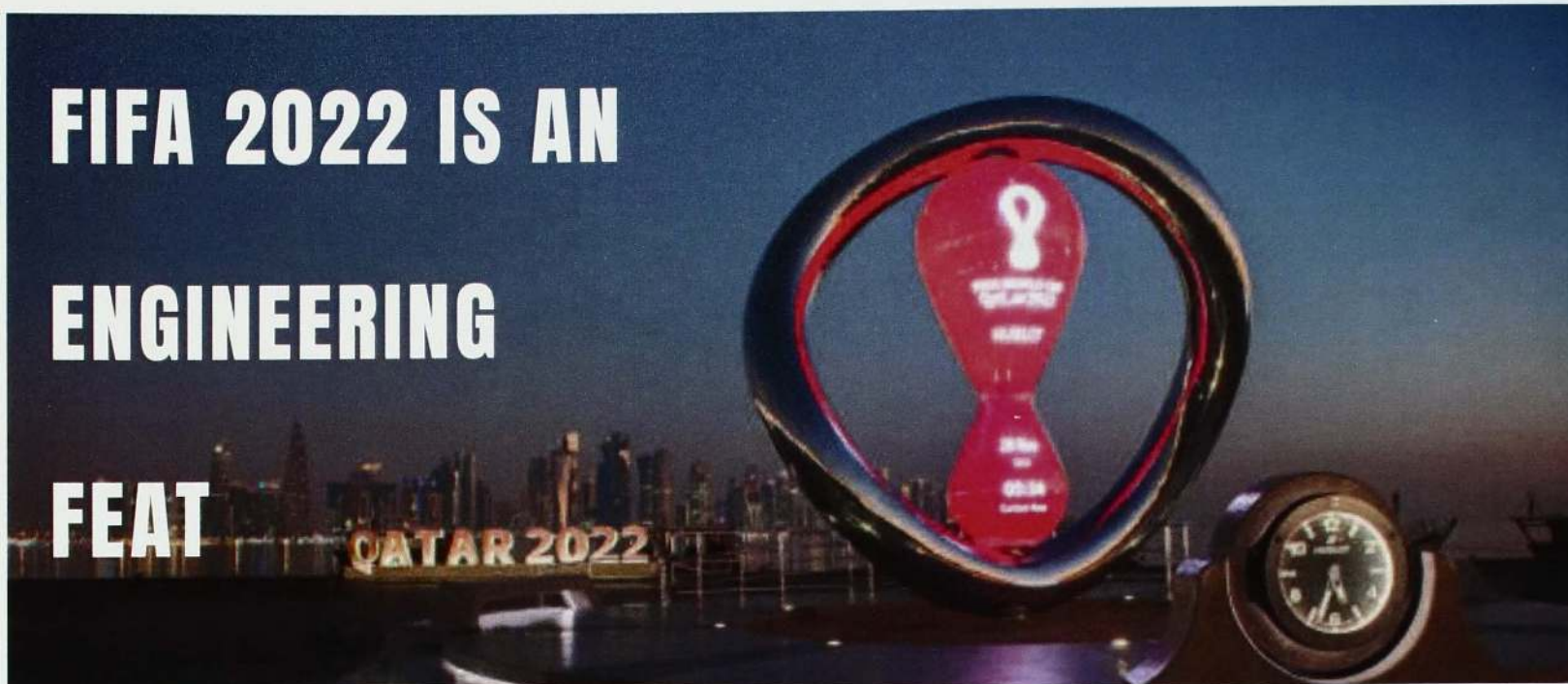
வான் விட்டு என்னை தேடி வரும் மழைக்காக...
தீராது சவம் மீது மலர் தூவும் மனிதத்திற்காக கொஞ்சம் இன்றில் வசிக்கிறேன்...

கறுப்பு குடையை சற்றே விலக்கி
நீங்காத நினைவில் புதைந்த விதை
நிலத்தை பிளந்து
கூடு என்றெண்ணி வெளிவந்து...
பின்
உலகமாகிப்போன அந்த கருவறை ஒளியை தேடி
அடுத்த பக்கங்கள்...

FIFA 2022 IS AN

ENGINEERING

FEAT



FIFA World Cup Qatar 2022 was one of the most spectacular world cups of all time. And that's not just because of its competitive matches but also because of the fantastic technology employed. This year's World Cup was by far the most expensive of all time. Qatar has reportedly amassed astronomical costs of around \$220 billion. The Qatar 2022 World Cup is possibly the last time Cristiano Ronaldo, Lionel Messi, and Luis Suárez play for their respective countries, and what a place to have their swan song. Although it is possibly the last tournament for these legends it has many firsts for the FIFA World Cup. Qatar is the first Arab nation to host the tournament, the first time a stadium has been built to take it down afterward, a player tracking app, and so on. Eight stadiums either completely new or refurbished from previous stadiums hold various innovative ideas. Only one Stadium will be called home to a football team while one other Stadium will be dismantled altogether while six of the remaining venues will have half their seats taken up and sent to developing countries to help improve their Sports infrastructure. Seven of the eight stadiums feature advanced cooling tech. The showpiece stadium is known as Lusail Iconic Stadium and is where the final was held with a capacity of 80,000 people. It is the biggest stadium in Qatar and like all stadiums, it features new technology to keep fans cool in the Qatari heat. The mastermind behind this cooling technology is Dr. Saud Ghani, a Professor of Mechanical Engineering at

Qatar University. Dr. Ghani wanted to create a micro-climate bubble within the stadiums but the hardest part was to keep the outside warm air entering open-air stadiums. Dr. Ghani and his team first created 3D models of the stadiums which were placed in a wind tunnel with smoke representing wind. The data was processed by Computational Fluid Dynamics software to determine what the temperature would be at each level. The team concluded that blowing cool air on the players via football-sized nozzles parallel to the pitch and smaller air diffusers under each spectator's seat pushing cold air out at ankle level could mimic a natural cold flow. The circulation of the air means that the air is drawn back and re-cooled before cooling the stadium again keeping those eco-friendly warriors at bay. Even if the final has come down to a penalty shootout we'll not have been a sweating mess. The next stadium is another first. It's almost like this tournament was trying to be the first at everything,

Stadium 974 was designed and built with the intention of removal after the sporting event. This radical idea is from Fenwick Iribarren Architects in association with Schlaich Bergermann Partners and Hilson Moran. This 40,000-seat waterfront stadium is constructed from a steel frame and shipping containers are used as one of the main building blocks.

Everything in this stadium from grandstands to stalls and sanitary fittings can be easily transported as certified shipping containers.

These containers can be reassembled on another site or converted into multiple smaller sites once the tournament has finished, it may be the first stadium designed to be broken down but it surely won't be the last. Built-in one of Qatar's oldest lived-in areas. However, Stadium 974 was the only one without advanced cooling technology because it has natural ventilation and does not require cooling due to its proximity to the sea-side. The Al Janoub Stadium was designed by Iraqi-British architect Zaha Hadid and it reflects the wind-filled sails of Qatar's traditional dhow boats. It boasts a capacity of 40,000 and is expected to reduce in half to

edge technology. A linked ball system transmits real-time data to VAR officials about the match ball. This technology is being used in conjunction with FIFA's new Semi-Automatic Offside Technology. There is the brand-new Adidas Suspension System with motion sensors in the center of the ball. This is the first time such a futuristic ball has been used at a World Cup.

The official match balls for Qatar 2022 will have an inertial measurement unit sensor placed inside. This sensor will send ball data 500 times per second making a precise decision easier. The stadiums are all situated within a 21-mile radius of central Doha and will be



linked by a Metro and tram system that made us able to watch more than one game on the same day. This fantastic metro system featured driverless trains that can reach speeds of up to 60 miles per hour. Qatar 2022

is building up to be an example of how other World Cups should be organized. Visually impaired football fans also have access to the 2022 World Cup in Qatar. A revolutionary product called 'Bonocle' converts digital content from the World Cup to braille, allowing visually impaired fans to access the content and enjoy the World Cup. 'Challenge 22', a competition launched by the Supreme Committee of Surrender and Heritage (SC) in Qatar, is leading a technological revolution in the Middle East. Bonocle was a product that emerged because of Challenge 22. These developments will make the tournaments a joy for everyone in the world!

20,000 once the World Cup is over. This idea is shared between the other stadiums where their capacity will be lowered, and the seats will be donated to various projects throughout the world. VAR is back at all stadiums whether you love it or loathe it. There are technological innovations on the field as well. FIFA has previously announced that a semi-automatic offside technology will be used during the World Cup in Qatar. This is a support tool to help referees make accurate fast and repeatable offside decisions throughout the tournament. There are 12 tracking cameras mounted underneath the roof of each stadium to track the ball and up to 29 data points of each individual player keeping track of their exact position on the pitch. Even the footballs had a much-needed upgrade. The 2022 World Cup's official playing ball, Al Rihla, is filled with cutting

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Rinduja R.

E19

ARE WE LIVING IN A SIMULATION.....

Have you ever thought about whether we are living in a simulation or not? Yes, if you have watched the sci-fi movie '*The Matrix*', or if you have ever played GTA-V, you might at some point get this idea of what if we are living in a simulated reality created by a much more advanced civilization.

The concept of simulated reality is not new. There was a Greek allegory from Plato about pseudo-reality. In the allegory, Plato describes a group of people who have been living in a cave since birth. They are chained so that they can only look straight ahead, and they can see only the shadows of objects that pass in front of a fire behind them. The prisoners believe that the shadows are the only reality, and they have no concept of the outside world. Just



like the shadows on this cave could our perceived reality be a shadow of something else..?

Let's scientifically analyze this. We need to know what is an '*observer effect*' first. For this let us

consider the double-slit experiment. The double-slit experiment is a classic example of the strange behavior of subatomic particles, and it is often cited as evidence for the "observer effect", which refers to the idea that the act of observing a system can influence the outcome of a measurement. In the double-slit experiment, a beam of particles (such as electrons) is directed toward a screen with two parallel slits. The particles pass through the slits and are detected on a screen behind the slits. When the experiment is performed with a large number of particles, an interference pattern is observed on

the screen, which indicates that the particles are behaving like waves. The observer effect comes into play when the experiment is modified to try to determine which slit each particle passes through. For example, if an



observer tries to measure which slit each particle passes through by placing a detector at each slit, the interference pattern disappears, and the particles behave like they are passing through one slit or the other.

This suggests that the act of observing the system has influenced the outcome of the measurement. This shows the system acts in one way when observed and in a different way when not observed. This could give us a lead that the observable reality is different from the actual reality.

In 2022 the Nobel prize for physics was given for proving the universe is not locally real, which is it not local and real at the same time or both must be false. Here **local** means all interactions take place in the direct spatial and temporal neighborhoods and **real** means here that all quantum objects indeed have specific (deterministic) properties since the moment of their creation, just like we are used to perceiving the world. This tells us there is a **possibility** of the simulation theory is true.

There are plenty of theories to support the concept such as Conway's game of life, people complaining about experiencing eye-witness events that cannot be explained by critical thinking known as the '*glitch in the matrix*' but still there is no proven evidence for the simulation hypothesis. If you are interested, you can read more from r/AWLIAS subreddit.

SENTHOORAN E19

The Passage of Time

On the lawn of my home,
A castle had been built,
It's something I hadn't seen
In my whole life, and even in my dreams

Linking me and the castle's door,
On the trench a bridge got drawn
Now I'm to enter the castle,
The castle on my lawn.

The walls filled with joy,
Of drawings of my past,
With mom and dad and some,
Some friends of my lovely past

As I passed - looking the walls,
I was led to tunnel dark and cold
The young, jolly drawings of me
Now turning into old

On the walls of the tunnel,
Now joy is no more,
But pain, stress, cigars and brew
Stole the drawings on the wall...

Long long I go,
I saw my children frown
And my Wife – my Love,
Crying on the wall...

Through a hole on the floor,
I saw doctors cutting me open
I got numb, pale and terrified
And I got drawn – into the cut body down

Then I woke up to see me in a ward,
To see my wife crying with tears
And I told what I saw to her...
To hear what she whispered slowly into my ears

“Darling, it's your life, what you had seen,
The Passage of Time, throughout the life you had been...
Dark it got drawn, as now you're so tired,
Please don't you leave me ever, cause the passage may not show...
A hole to see me, your heat – your liar....”

English Poetry Winner
Nawarathna D.M.A.A.

E19

DON'T FEED YOUR WEAKNESS

Sometimes life has a habit of getting you down. Especially being a university student can be one of the hardest phases of your life. There have been inevitable setbacks, failures, and heartbreaks. Have you ever found yourself feeling like you're a victim during those situations? You might also feel that you deserved better. But the reality is no matter what you truly deserve or how good you are, life won't always treat you the way you think you deserve to be treated. Don't let that entitlement mentality consume you.

You're entitled to be happy, yet here is a thing: You're not entitled to anything you didn't work hard for. Don't ever expect someone to hand over the success to you on a silver platter. Because you should remember that no one in this world owes you something. It's no one's job to give you what you need. You're responsible for your life and you should take accountability. Don't fall into that entitlement trap.

Even when you go into society as an Engineer, you can't expect respect from people around you, just because you're an Engineer. You should earn that respect as a person by treating others in a way you wanted to be treated. So, you have to get rid of that entitlement mentality otherwise it will ruin you eventually.

Sometimes life is not fair. Certainly, it's not easy. If you feel like a victim due to that you will end up having a negative view of life thinking you've no control over things happening around you. The path you've come across wasn't easy neither was the life ahead of you. Whenever life gets harder instead of blaming

your circumstances, you should believe in yourself and work hard to get over it. Do not rely on emotions or motivations to drive you through. Success is more rewarding only if you put in the effort, hard work, sweat, and tears to get it. End of the day no matter what were you going through or how your body feels, what matters most is the fact that you did your job and hold to what you believe and who you are. Setbacks don't equate to your worth, there is no need to cry about it or feel bad. Whenever you face a failure, stop complaining about it and instead take a moment to realize your mistakes and try to learn from them. Be comfortable with the failures. You had to admit that you don't know everything and be willing to

learn. Grasp various things from your experiences. Live your life for you. Have that audacity to take the responsibility to shape your life. Have an eagerness to want life to be better. Stuff happens, if there's nothing you can do

about it allow yourself to give your mind a break. Despite being stuck or feeling out of place due to the tough days you spend here, experience this gift of university life for which those are the memories that we will cherish for the rest of your life.

VINOJAN P. – E19

“The key is taking responsibility and initiative, deciding what your life is about and prioritizing your life around the most important things.”

~ Stephen Covey

Loss and grief

When our loved ones leave,
Our life becomes unusual,
The ground beneath us becomes fragile,
Our memories make our eyes wet;
And tired echo drags our voice down
Where our mouth starts to blabber without any confidence,
We bear a heavy heart with loss;
And thinking this heart attack has attacked others too,
When the memories hit back, the silence deepens,
act as a normal human with a faking smile
That no one ever could doubt in our weak mentality;

There were days when we wake up happy;
Until the moment breaks
And we were thrown down like a rubbish
Into the dark side of our life;
But as a hope,
Days are coming when we can have our cured heart back,
Forget about those tragedy moments
We are able to work as we before,
Until in the middle of any engagement,
Without any acknowledgement
We are under the same grief;

Beginning of this stage,
It makes our own-selves doubt on it,
All we can do is wait for the correct time
To bury our burden as much as can,
Until the wound in our heart cures;
But step by step as the time passes,
We get to use with our abnormal life ,
Believing it as a usual life;
The wounds of loss will heal with the time,
And be able to enter the peace
In our soul where our loved one
Has awaited our return
All the time.

English Poetry 1st Runner up

Jeny

E19

Hey Siri,



How many times have you shouted “Hey Siri...” across the room and your reliable virtual assistant came to life to adhere to your every command? Most definitely you’ve lost count. If that’s not the case, we are all guilty of trolling Siri every now and then for a bit of fun. But have you wondered what’s happening behind the scene?

The core ideology behind Siri or any other virtual assistant that you see as a standard in almost every smart device nowadays is conversational AI. Conversational artificial intelligence can be defined as an intelligent mechanism of imitating real-life human conversations. This AI-powered tool is capable of generating responses that are more natural and aligned to real human conversations and is a huge step ahead compared to traditional chatbots with limited responses to limited queries.

Machine learning has its roots deep within Siri giving her the superpowers that amaze us all. Machine learning, in brief, is an application of artificial intelligence that enables the training of systems to improve their capabilities for self-decision-making by training the system on large sets of test data making it possible for the system to analyze input data and identify patterns and predict results. What’s fascinating about machine learning is that once trained, the systems are capable of learning and performing on their own without constant human intervention. Other aspects of machine learning such as natural language processing and deep learning are also integral in helping Siri do her job faster and better. To ask Siri’s help is as simple as calling her with the popular phrase, “Hey Siri”. But a lot goes on under the hood to wake up Siri quickly and efficiently to your summoning. The process involves a series of interactions between the hardware, the software, and the internet. Depending on your device and predefined settings, an on-device speech recognition system runs actively all the time in the background listening for you to say “Hey Siri”. When the speech recognizer hears the correct phrase, it parses the rest of the phrases following the trigger as a query or a command.

Sounds simple? Not quite. Siri has to compensate for false triggering to avoid waking up at the wrong time and by the wrong person. After all, you don’t want your personal assistant to go off on the street when a stranger calls “Hey Siri”. For this, the detector in Siri’s voice recognition system uses a Deep Neural Network (DNN) to convert the voice input into a probability distribution over speech sound. Then the phrase is passed through complex computational algorithms backed up by machine learning to assign a confi-

dence score to the waveform. If the score is high enough, Siri wakes up enthusiastically to serve you. To ensure security and accuracy, Siri runs multiple on-device and server-side checks. As the experts at apple explain it,

“ We compare any possible new “Hey Siri” utterance with the stored examples as follows. The (second-pass) detector produces timing information that is used to convert the acoustic pattern into a fixed-length vector, by taking the average over the frames aligned to each state. A separate, specially trained DNN transforms this vector into a “speaker space” where, by design, patterns from the same speaker tend to be close, whereas patterns from different speakers tend to be further apart. We compare the distances to the reference patterns created during enrollment with another threshold to decide whether the sound that triggered the detector is likely to be “Hey Siri” spoken by the enrolled user.”

Meanwhile, Siri’s machine learning algorithms are busy at work learning from its mistakes and successes to do better the next time you call out for help. After having synthesized all the information, the text-to-speech algorithms start to work in converting the information into a vocal response. Speech synthesis which is the artificial production of human speech in Siri based on deep learning results in the responses being natural, and smoother and allows Siri’s personality to shine through. As apple likes to explain it,

“ We built a deep MDN-based hybrid unit selection TTS system for the new Siri voices. The training speech data contains a minimum of 15 hours of high-quality speech recordings sampled at 48 kHz. We segmented the speech into half-phones using forced alignment, i.e., automatic speech recognition to align the input phone sequence with acoustic features extracted from the speech signal. This segmentation process results in around 1–2 million half-phone units, depending on the amount of recorded speech.”

All these complex combinations of different machine learning systems aided with deep learning give birth to Apple’s own unique personal assistant software we all know as Siri. So the next time when you shout “Hey Siri”, take a moment’s pause to think of the hundreds of Siri language engineers, system engineers, and software engineers working hard to make your wish a command.

All these complex combinations of different machine learning systems aided with deep learning give birth to Apple’s own unique personal assistant software we all know as Siri. So the next time when you shout “Hey Siri”, take a moment’s pause to think of the hundreds of Siri language engineers, system engineers, and software engineers working hard to make your wish a command.

A.Y.ISURINDA D. PERERA—E21

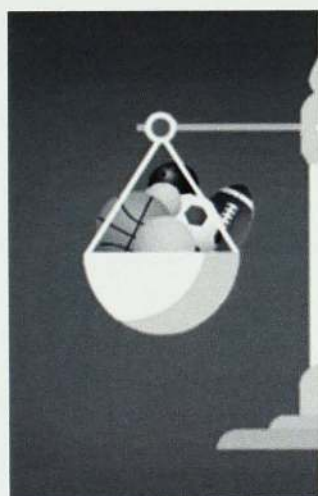
Drawing Competition - Winner

K.Saritha

E20



Playing a sport is a great way for students to take a break from academics and release pent-up energy. It also helps them live as regular sports and fitness activities have proven to provide not only physical benefits but also social and psychological benefits to students. Academic achievement is extensively emphasized by parents, universities, and well-wishers from a young age as a method of achieving success in life. Sports and academics are rarely discussed together out of concern for one's own reputation, the child's future, and professional prospects. For a long time, sports have been viewed as a way to stay healthy and in shape, but their importance goes much further. As a matter of fact, playing sports teaches life lessons like discipline, responsibility, self-confidence, accountability, and teamwork. Studies have shown that exercise increases blood flow to the brain and helps the body build more connections between nerves, leading to increased concentration, enhanced memory, stimulated creativity, and better-developed problem-solving skills. In short, playing sports helps your brain grow and makes it work better. The reason most students do not play sports is that they feel lazy about it and don't have the energy for it. However, the belief that the intense exercise of playing sports will leave you exhausted has been proven wrong by research. Because exercise pumps more oxygen through your blood and makes your entire system more active, the benefits of playing sports actually include giving you more energy to accomplish everything else you need to do to manage your busy university schedule. While having a child who excels academically makes the parents and the university proud, the same cannot be said for a youngster who is more interested in athletics. There is a false belief that a child's commitment to academics is hampered by participation in sports. Additionally, it is believed that spending too much time on sports will result in poor grades and should be avoided. Additionally, the addictive nature of digital media, such as online gaming, social network-
 coursework and study seriously in order to achieve this. However, if all you do is focus on your education, you will lose out on other important aspects of life. Sports are a part of one of those. Sports and other outdoor physical activities are vital components of our lives. Sport is taught alongside academics in numerous universities and institutions for the same purpose. Research on sports has proven that



PERFECT BALANCE OF ACADEMICS AND SPORTS



age as a method of achieving success in life. Sports and academics are rarely discussed together out of concern for one's own reputation, the child's future, and professional prospects. For a long time, sports have been viewed as a way to stay healthy and in shape, but their importance goes much further. As a matter of fact, playing sports teaches life lessons like discipline, responsibility, self-confidence, accountability, and teamwork. Studies have shown that exercise increases blood flow to the brain and helps the body build more connections between nerves, leading to increased concentration, enhanced memory, stimulated creativity, and better-developed problem-solving skills. In short, playing sports helps your brain grow and makes it work better. The reason most students do not play sports is that they feel lazy about it and don't have the energy for it. However, the belief that the intense exercise of playing sports will leave you exhausted has been proven wrong by research. Because exercise pumps more oxygen through your blood and makes your entire system more active, the benefits of playing sports actually include giving you more energy to accomplish everything else you need to do to manage your busy university schedule. While having a child who excels academically works, television, etc., has reduced the amount of exposure students might normally have to sports and leisure pursuits. As a result, young students are more likely to have psychological problems including attention deficit disorder, lethargy, irritability, lack of tolerance, emotional instability, etc. It needs a robust university system and strong academic performance to develop into a well-established and kind person in life. You must approach your participating in physical activity helps us stay fit and healthy while also keeping our minds sharp. University sports feature a variety of competitions, including basketball, football, and cricket. In order to encourage participation, the university must give points for athletics as well. Apart from academics, university life is a period where you may pick up skills that will help you along the way in life.

This covers both positive and negative aspects. Sometimes, the only way out of unfavourable situations is via athletics if they have a greater negative effect on you.

Researchers say people who play sports have a better ability to filter out noise and static...

Some student-athletes pursue athletics as a career, therefore they could become anxious about matches, practices, etc. Everyone wants to perform well, give their all, and see themselves succeed, but an exercise in and of itself—especially participation in a team or sport you genuinely enjoy—has numerous positive effects, including the reduction of stress, stimulation of the brain, the release of feel-good endorphins, regulation of numerous bodily functions, etc.

Sports provide exceptional benefits for our cognitive function in addition to physical ones. It keeps you from developing an addiction to harmful behaviors like drinking, smoking, etc. It increases

your awareness of your health and helps you stay in shape. Your body will be more resistant to illnesses and other health issues if you engage in physical activity, which will help you maintain your regular attendance in university classes. Some government positions select candidates based on their superior athletic ability. Therefore, if you

Practice can change the brain, strengthening neural connections and even altering its structure.

excel in a specific sport, you may have the opportunity to develop a successful career in it. According to research on sports, students who participate in both athletics and academics in university are more career-focused. This is due to the fact that sports utilize their activities to teach discipline, focus, and time management. Additionally, it will protect the pupils from modern-day mental stress.

Being a sportsman may help you improve your communication, team-

work, and leadership abilities. Working on projects will benefit from these traits. Projects require equal participation and effort from every student. Students will gain responsibility and dependability skills by juggling their academic and sports commitments. Maintaining equal records in two distinct fields is undoubtedly highly challenging, but it is by no means impossible. You may place equal importance on your studies and your university athletics, and you can achieve equal outcomes in both areas.

Mirror systems in athletes' brains could contribute to their ability to accurately predict the moves of other players.

You can succeed in both careers if your parents support you and you put in an equal amount of work in both. You will benefit equally from it because you are making the most of your whole day. It's acceptable if you sometimes veer away from any one of them. For instance, you could forego a few days of regular sports practice before or during your examinations.

Alternatively, you may focus solely on sports for a few days following the exam and neglect your academics for a similar period. You have to control your daily schedule and know when to act, after all. Universities and other educational institutions now provide assistance to make up missed lessons. Later, the students might gather their notes and study. The teachers will provide them with appropriate guidance if they run into any problems comprehending the context. It should be the obligation of athletic students to notify the teachers of any upcoming absences. The finest outcomes come from pushing people to their absolute limit. By pushing above their limitations, students may learn their greatest potential and what traits they need to work on in order to become better people in the future.

S.JEYAPRAGASH

E18

POWER AND LEADERSHIP

As youngsters, we should have great behavior in leadership. Since our childhood, we are being cultivated to respect leadership and work under leadership. There is a quote that "The real leader won't be found by the society; he will rise up from himself". From our childhood classes we were trained to work under a class monitor and at the school level, it is expanded from prefect to school principal and school administrator. The first quality to improve our leadership skills is organizing ourselves. Organizing is leadership that empowers people to transform their resources into the power they require to effect the change they desire. Community organizing is all about people, power, and change, it begins with people and relationships, is concerned with moving power, and seeks to bring about long-lasting change. The ability to master five essential leadership skills telling stories, developing relationships, creating teams, strategizing and acting is the foundation for gathering people to create the power to effect change. Specifically, we must learn the following to increase our potential for successful community organizing:

An organizer's initial inquiry is, "Who are my people?" not "What's wrong with me?" Effective or-

- *How to tell a tale that explains our call to leadership, the community we want to organize, our unity, and our need to act.*
- *How to create relationships that are purposeful in order to create purposeful group actions.*
- *How to set up a structure that prioritizes leadership development while distributing authority and responsibilities.*
- *How to use strategy to attain certain goals by converting your resources into force.*

ganizers focus their energies on individuals rather than problems. Organizing is not about finding

solutions to a community's issues or fighting for them. In order to fix the problem, the people who are experiencing it must be given the tools to do so. The greatest characteristic is first and foremost confidence. A leader needs to be very confident in themselves. A person who lacks self-assurance is seldom an effective leader. A guy needs to have enough self-assurance to command others to follow him. The leader must have faith in his judgment and deeds. How can people want to follow him if he is uncertain? Certainly, a good leader must motivate people. A leader must serve as an example for his subordinates. Additionally, he ought to inspire them whenever possible. A leader must also maintain hope in trying times. If a leader himself lacks optimism, how can he inspire others?

Another noteworthy trait of a leader is honesty. To win the admiration of followers, one must demonstrate honesty and integrity. Above all else, gaining the public's trust requires being honest. Every leader that loses trust is probably doomed to failure. People won't put their all into their work because of an immoral leader. A good leader needs to be able to communicate effectively. This is so that followers don't receive the intended message due to poor communication. Additionally, effective communication will speed up production. Additionally, it will be less likely for followers to make mistakes. Therefore, these habits and behaviors should be made to influence us and will convert us into good leaders for this society and country. We should keep our minds determine to be a great example in our society as a leader. At the same, you will be the only hero in your society better than in the comics.....

ZAHARI Z.Z. E21

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TIME TRAVEL- A REALITY OR A FANTASY?

Would you believe it if I tell you that our eye is a time machine?

Believe it or not that is the truth

The fastest physical thing in the universe is light anyhow it takes some time from far-away galaxies to reach us. Light takes approximately 8 minutes and 20sec to travel from Sun to earth so you can simply say that you are seeing the Sun 8 minutes and 20sec in the past.



NASA launched the largest, most expensive and technically advanced telescope that is 100 times more powerful than Hubble telescope in late 2021.

It's huge size and richer infrared view allows it to take a step beyond the Hubble's deep field observations to peek back over 13.5 billion years.

When this instrument captures the ancient and well-travelled light, it becomes a time machine.

Visible light is what our eyes can see and it can travel so far before fading away, while infrared light can travel much farther and it is not easily blocked by any objects in the space.

The James Webb telescope makes it possible to see this infrared light. The infrared light travels longer distance before fading, it allows us to see further back in time to the time when the very first stars and galaxies were being born.

We can see our origin from the James Webb telescope and it will take us to the past and show the first galaxies that formed in the early universe.

This way it is possible to see our past but we can't travel

back to

the past and to prove this, famous scientist Stephen Hawking did an experiment. It is said that he hosted a party for time travelers, but no one attended that.

From that, he was able to conclude that backward time travel or time travel to the past is not possible but there are some theories circulating about how it is possible. Most of these theories are practically difficult to achieve even if they are theoretically possible.

Time is defined as the fourth dimension of our universe and the phrase 'Time travel' defines traveling faster than 1 second per second.

We are all time travellers, which means it is possible to time travel to the future. In the special theory of relativity, the famous Scientist Albert Einstein determines/indicates/said/says that time is relative.

In simple words, the rate at which time passes totally depends on your frame of reference. According to the Michelson-Morley experiment, the speed of light is always constant. This means that the speed of light is independent of the motion of the observer.

Now consider a light clock designed to work by bouncing a flash of light, of a distant mirror.

When we place a light clock on the Earth The light travels up and down and it travels a particular distance within a second.

If you place the light clock on a space jet which is moving faster than the light travels more distance in that frame of reference.

Since the speed of light is always constant, the time increases OR To keep the ratio unchanged, the time will need to increase. In simple words, The faster you move in space the slower you move in time.

As the speed of an object traveling anywhere in our universe reaches the speed of light, time begins to slow down.

To prove this theory of time dilation, the Hafele-Keating experiment was conducted.

Accurate atomic clocks were synchronized, and some clocks were placed on earth as reference other clocks were taken on an airplane

flown in the westward and eastward directions around the world twice.

There was a mismatch in the clock times, between the ones in the

airplane and the ones placed on the Earth.

If you think about it, when we travel in a Bus, car or train, we reach some speed, meaning we have already time travelled into the future, but that time is very small (because the speed at which we travel is not even close to the speed of light)

At present, an Astronaut named cosmonaut Sergi Krikalev, he holds the record for time spent in orbit around the Earth 803 day. The time dilation caused due to his orbital motion is 0.02 seconds. This means he is younger than other people born at the exact time of his birth. this also makes Sergi Krikalev the highest time travelled person.

Modern technology of spacecraft allows us to travel at a maximum speed of 163 km/h. If we wish to travel further into the future, we must reach the speed of the light. Most of the scientists believe that this is possible with the black hole.

The black hole is a region which has immense gravity that nothing can escape, even light can not get out.

The 'information paradox' states that information cannot be destroyed in the universe. A white hole is a time reversed black hole which is a theoretical concept, that provides an acceptable solution to the 'information paradox'.

White holes spit out light and matter rather than trapping it.

There is a concept that when the black hole is connected to the white hole, any object that went into the black hole is 'spit out' to space by white hole.

This is an acceptable solution for the mysterious 'information paradox' as well as time travel but research is still going on.

ENGINEERING CONCEPTS & VIDEO GAMES

Video games are a big topic of discussion in the 21st century. Around 3.3 billion people have online gaming accounts around the world. Think of the percentage in total where single-player games are also counted. USA researchers say that over 65% of adults have played a game on at least on a single platform.

So, when we are about to discuss engineering and Gaming there are two paths,

- ⇒ *Engineering for gaming*
- ⇒ *Engineering in gaming*

Briefly engineering for gaming is when we are developing and inventing new modes of and for gaming using the drastically advancing technology. Engineering in games means the engineering goals and concepts being used inside the game engines, and also the strategies induced with engineering used by pro players around the world.

In the gaming field, engineering, engineering concepts, and engineers are essential elements nowadays. As you experience those amazing games and devices

Engineering for gaming.

With the advancement of technology, there has been a huge change in the gaming field. The first gaming device was called "odyssey" manufactured by Magnavox and released in 1972. Starting with that the arcade game era ran through the world. 1978-1982 was known as the golden age of games and Donkey Kong (1981) and Q*Bert (1982) were the most popular games in the era. And most present-day kids might know about packman because most of the creators didn't let that game die. Considering individuals, they couldn't afford to buy an arcade console on their own. Thus ends the era with the development of technology LED/VFD/LCD games came to the market.

Following the success of the Apple II and Commodore PET in the late 1970s, the second wave of computer games came into the world. Xbox, play station and mobile devices have spread very fast through the community. And so far with the development of the internet video games captured a big role in entertainment, this is the history of what engineers have done for gaming.

The present gaming universe is advancing drastically. As most of you know, Virtual Reality technology is on its

improvement and there are a few games in the beta state while a few games have been released like beat Saber & Resident Evil. Players can use VR headsets and head-mounted gears to enter different illusional worlds to experience more realistically and cut ties with the real world. We can't forget about Augmented Reality, games like Pokémon go and Harry potter: wizards unite are enjoyable because it's like gaming while enjoying real life.

As for now, engineers are working on improving VR & AR technologies, one example is fully immersive VR technology. Which makes you fully experience a virtual world. Cloud gaming is in development, which allows players to use cloud resources to play new upcoming games without any hardware upgrade. There would be more interactive visuals and experiences with augmented reality in near future. Metaverse is another concept where research is ongoing to create a multiplayer virtual world where players can live their normal lives virtually. Newly released Unreal Engine 5 would bring more and more interesting and addictive games into the world. There might be different names for their professions, but we get to experience these because of the hard work of engineers.

Engineering in gaming

At an early age, our parents used to say/discriminate against computer games saying how unrealistic they are. But in this era, the engineering concepts used in games are marvelous. Gravity, elasticity, collisions, and many more theories are deeply considered in creating games. Starting from simulation games like trials racing and Euro truck, big open-world games like Red dead redemption 2 and legend of Zelda exhibits the best use of engineering and physics theories. Jiggle physics is well-known these days and many players are considering them a major requirement for great games.

gifted by late engineers, keep in mind that you have to pay it back to the next generation.

Ahamed Nafras
E20



General photography Competition - Winner
John keshanth J.
E19

One of the most amazing and enjoyable periods in a person's life is University. A person needs to have this experience in their life because University life is different from school life. We are exposed to completely new experiences in University life that we had always hoped to have after high school. Many people do not have the opportunity to enjoy University life owing to their circumstances or financial difficulties, thus those who do are fortunate. University

Life means something different to each individual.

Whatever the case, everyone cherishes their time in University and constantly wants to go back to that period. University life exposes us to a new world where we must learn new things and overcome new obstacles on our own, in contrast to school life where we learn everything in a safe setting.

We don't have as many restrictions in University as we do in high school, and we may choose how to spend our time there any way we like. In University, we meet new people and are immersed in a different environment where we must socialize. There, we meet new friends who become lifelong companions. It involves more than just academics; it also involves a person's total growth through a variety of pursuits and difficulties.

One has the opportunity to choose their own path in University. An individual has the opportunity to nominate themselves for more important roles in college life, such as university student association president, vice president, secretary, and vice secretary. A person has the opportunity to develop his or her confidence through participating in many societies and activities that happen during the year, in addition to choosing the course and stream.

UNIVERSITY LIFE

THE BEST TIME OF A PERSON'S LIFE

Our time in University is often thought of as a transitional period between our academic years and our careers. It provides us with the best academic preparation and platform to make dreams come true. We were reliant on our parents while attending school. However, we developed our independence at University in terms of studying, traveling, making decisions, and achieving financial independence after graduation. It is a valued and very smooth transition where we do not realize that we have become independent. Some fun memories of university begin in hostel life. Living in a hostel is an experi-

ence that makes us grow as a person. We can greatly develop our collaborative spirit. We will not mind sharing food, drinks, stories, and laughter. We will meet people from different regions, countries, cultures, and lifestyles, and best of all, each has its own suitcase of experiences and stories to share with. Secondly, the university canteen has some of the best college recollections. Then, it's the University annual functions. It provides new chances for exploration, comparison, competition, and a stage on which to display their talent. It developed into a location where students take numerous photos and document their experiences.

Field trips are one of the nicest aspects of university life since they allow students to spend time with their friends, teachers, and professors while also learning new things.

After all these happiest moments in our university life, The hardest part of college life for me as a student would be leaving after graduation. Knowing that you would soon be leaving your friends, the campus, teachers, and a part of life will entirely make the final days of college the hardest but it will still remain the best time of a person's life.

Rishikeiththan H.

E19



General photography Competition - 1st runner up
Udara Akalanka Rajapaksha
E19

STORY OF ARIVIYAL NAGAR

Eng. Mihisara Amarathunga E16

The beginning of this tale is November 21, 2016. Many Sri Lankans have never heard of Ariviyal Nagar. Before November 2016, I had never heard of it. Ariviyal Nagar seems to have been abandoned by people. An untold tragedy was revealed to us by muddy roads, untreated grass yards, and outdated structures with gunshot holes. However, I had motivation for one specific reason. That explanation was "HOPE." I was inspired to continue forward and enter a building that was under construction by the hope for a new life and the anticipation of a new chapter.

I really feel that the decision I made to enter that building significantly altered the course of my life. But I wasn't alone myself. There were 75 brothers and sisters with me. We altered our life tales collectively. We altered the course of the University of Jaffna's Engineering Faculty's history as a group. I cannot condense this narrative into a few paragraphs. To tell you the narrative, perhaps I'll need a whole library. But at least I'll make an effort to show you my story's trailer.

"E-16". That was the faculty's term for us. It was a really chaotic first year. We didn't strive to comprehend the profundity of the course we were taking as freshmen. We were so busy that we neglected to study. We traveled together. We celebrated our birthdays together in our own special way. Ariviyal Nagar's way of life was light as a feather. I still yearn to return to that impressionable age.

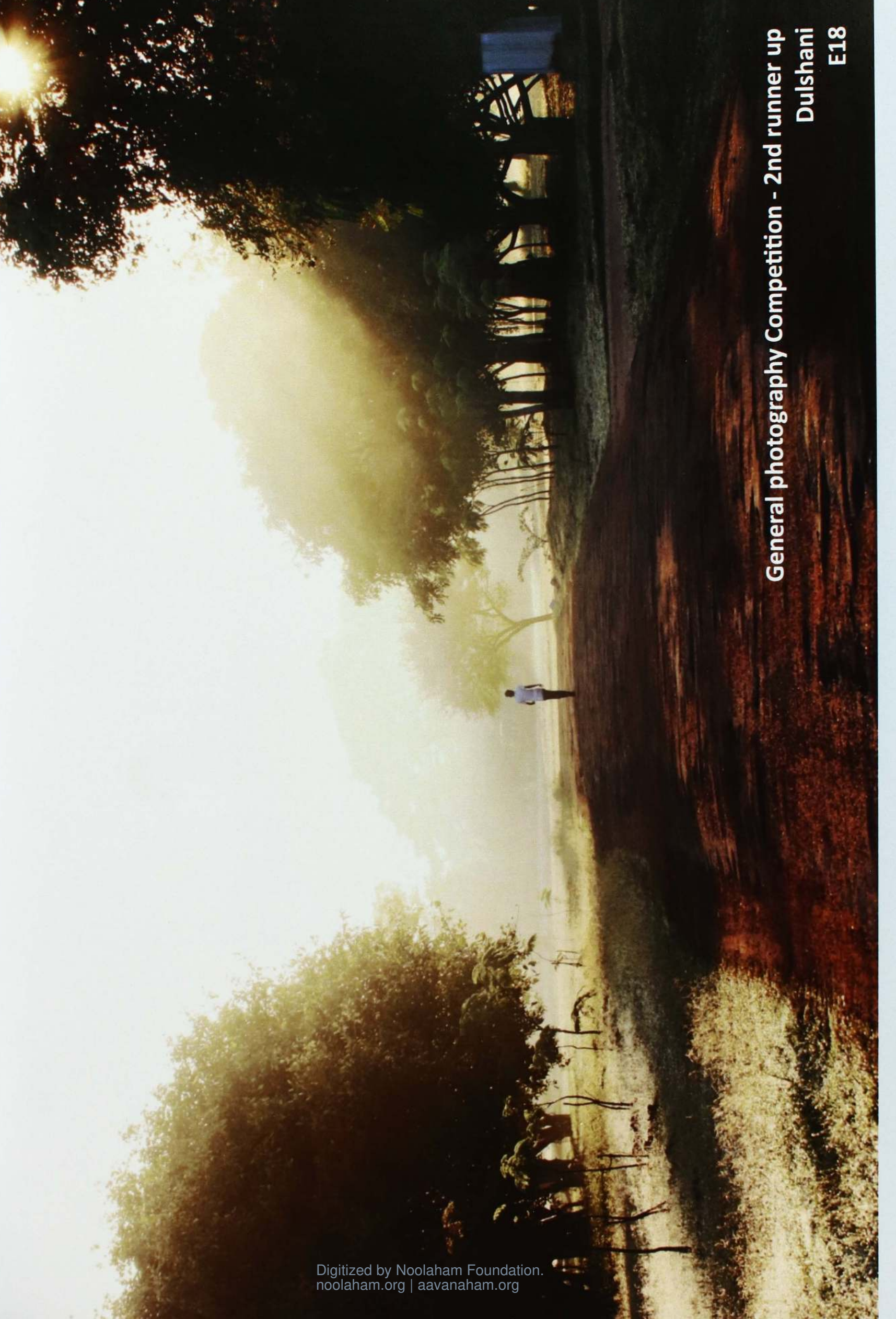
Second year was really different from the first year. We had to stay in boarding houses, and I still have nightmares about it. It was that lovely. We had lots of chances to enjoy ourselves in a naive way. We shared a chuckle. We performed music for the Kili sky. Every day, the water nearby cleaned our soiled clothes. If Kilinochchi's evenings could talk, they'd tell you some fasci-

nating tales about us. With the help of all of them, we managed to plan one of the most exquisite occasions in E-Fac UOJ's history. "YATHRA, Detsplash 1.4."

Third year thus begins. We had to scale back our enjoyment in order to put schooling first. But the good times kept coming. We performed well on our exams. Our domain was the hostel. There were distinct storylines in each chamber. Some rooms were filled with happiness, while others were filled with smoke. Most probably with scent sticks. Some rooms were filled with music, while others were filled with movie scenes. Politics, society, girls, guys, and every other issue that came to mind was discussed. In this way, the hostel resembled our own institution.

The last year was largely academic. Because it was different for every one of us, there is no need for you to waste your time reading it. We gave it our best effort, and the work paid off. That's basically it.

Ariviyal Nagar has such a great way of living. There, we made actual pals. There, we discovered love. Most crucially, we had never heard of the term "ethnicity." For us, it was a really weird word. There were no Muslims, Tamils, or Sinhalese students. In the E-fac UOJ, none of them were present. We were a single family of Sri Lankans. We sobbed together on the last day at Ariviyal Nagar. I finally comprehended our friendship on that particular day. We were all so attached, and it hurt a lot to break that tie. Every time I look at the images on my wall, in which I'm laughing with my pals, I get a warm, new embrace and a tiny tear drop. This is the life in Ariviyal Nagar.



General photography Competition - 2nd runner up
Dulshani
E18

E

1. The age of a father and a son add up to 66. The father's age is the son's age reversed (e.g. 12,21). How old could they be?

2. $4+2=26$, $8+1=79$, $6+5=111$, $7+3=?$

3. If you are 8 km away from a door and with each step you advance half the distance to the door. How many steps will it take to reach the door exactly?

4. Can you write down eight 8 s so that they add up to 1000?

5. Find a four-digit number in which

the 1st digit is one fourth of the last digit

the 2nd digit is 6 times of the 1st digit

the 3rd digit is the 2nd digit plus 3

6. $81 \times 9 = 801$. What must you do to make this equation true?

7. There are green, blue, black and red color sticks on table. Here are few clues on arrangement of the sticks

The green one is somewhere in middle

The blue one is left of the black and the right of the red one

The red color stick is right next to the blue one

So, what is the order of the sticks left to right?

8. Tom needs 12 seconds to cut a bun into 4 equal pieces. How many seconds does he need to cut the same kind of bread into 8 pieces?

9. $6666=4$

$8888=8$

$3417=0$

$9129=2$

$8219=?$

10. An apple is 40 cents, a banana is 60 cents and a grapefruit is 80 cents. How much is a pear?

11. In 2015, a person is 15 years old. In 2020, that same person is 10 years old. How can this be?

12. A cowboy rides into town on Friday. He stays three days, then rides out of town on Friday. How?

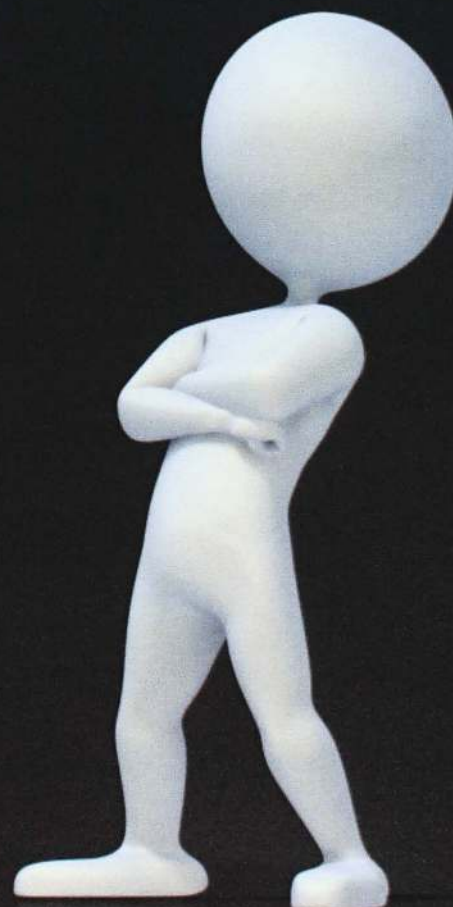
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Sinhala poetry 1st runner up
සකුන්ත මධුෂාන් ප්‍රේමනාත්
E20

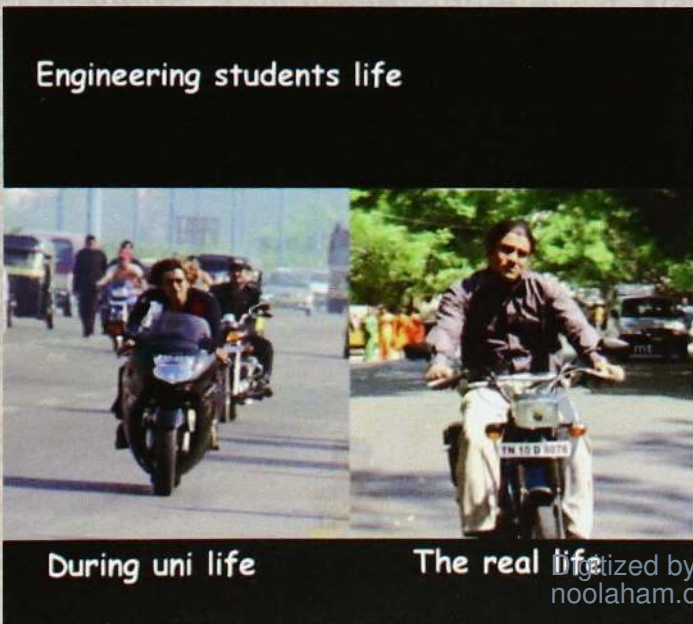
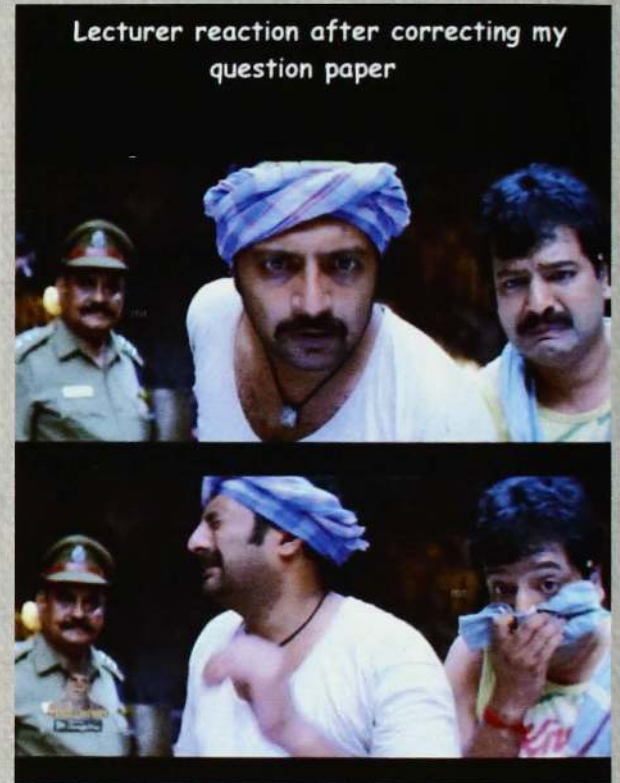
LIFE OF ENGINEERING STUDENTS



He is a civil engineer



See, no one cares



During uni life

The real life

Student's mind voice every semester starts



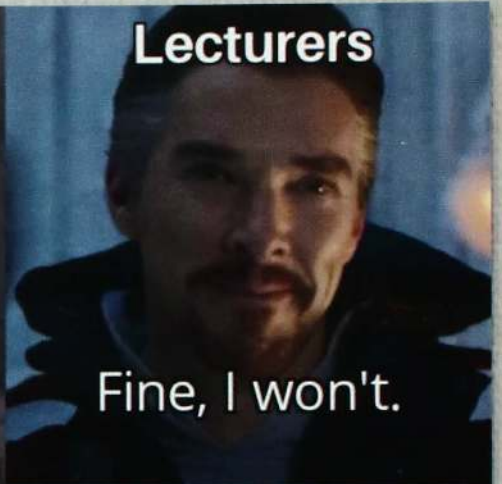
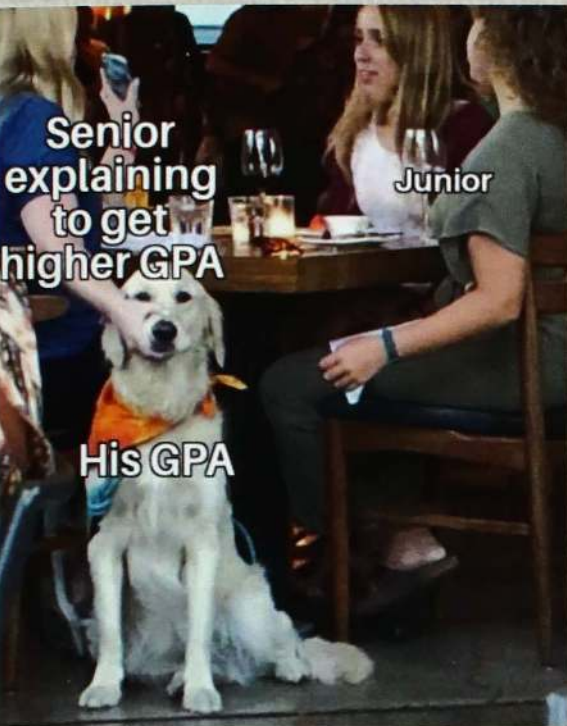
Ah shit, here we go again.

~Unannounced quiz

me~



Knowing today lecture is cancelled



Doctors- Googling stuff online doesn't make you a doctor

Engineer -



Every batch has this type of guy act as he doesn't know anything

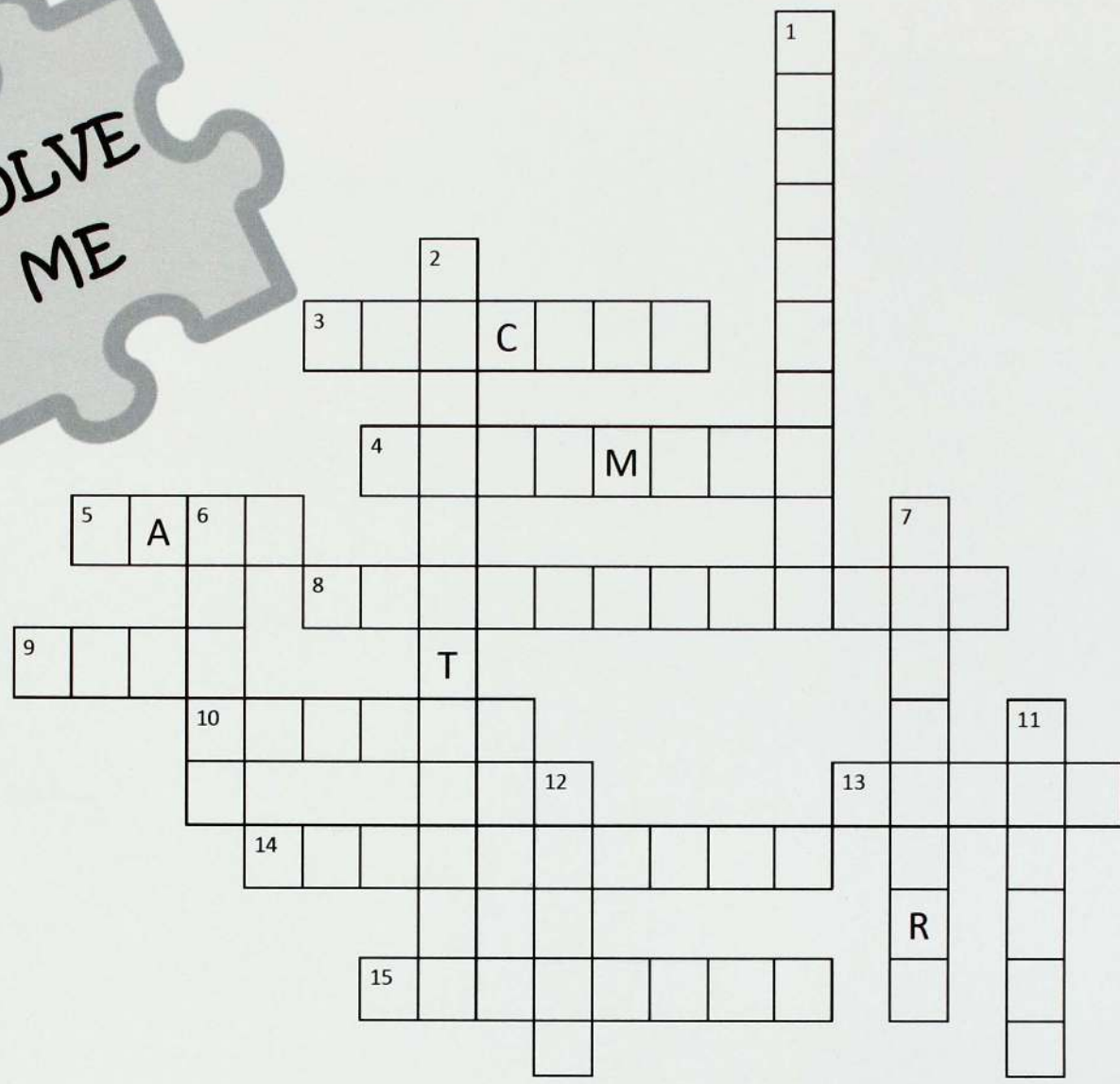
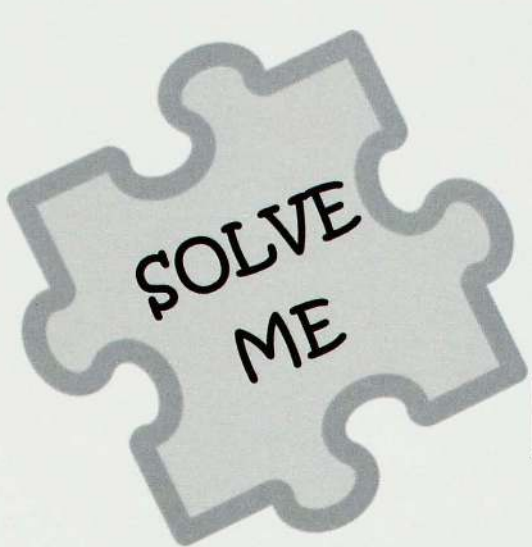


After exam Batch topper



Me after getting fail for a subject :





ACROSS

DOWN

- 3. a complete circular path that electricity flows through
- 4. A rough determination or evaluation of a value, number or quantity is called this
- 5. These are converted into binary digital form by computers and transmission media
- 8. The act of building something, usually a substantial structure
- 9. The oral test you will face in the laboratory is called as this
- 10. This is an essential software for engineering students
- 13. A week that we celebrate together
- 14. A hall that we use for conducting major events
- 15. This is the career you aspire to be

- 1. There are four such divisions in our faculty
- 2. Something that we fear of and is a must in research demonstration
- 6. Collaboration platform complete with document sharing and many more extremely useful features for our academic field
- 7. A collective name for programs, scripts, and applications that execute on a device
- 11. This is a main task of the engineer
- 12. An infection that shook the world

RENEWABLE ENERGY

Considering the evolution of energy sources from the past, it went through several stages. After the industrial revolution, people became accustomed to using fossil fuels. It played a leading role in the industrial world and was a great help to the development of the industrial sector. However, due to several disadvantages of fossil fuels, renewable energy was discovered as a solution.



What are Renewable energies?

Renewable energy comes from natural sources or processes that are constantly replenished. It is also known as clean energy or green power. Renewable energy sources are all around us. These include; Solar, Wind, Biomass, Hydro power, Geothermal, Tidal, Wave power, Marine energy.

Most of renewable energy sources are environmental friendly and having less emission of harmful gases. Today, the world has increasingly innovative and less-expensive ways to capture and retain wind and solar energy. Therefore, renewable energy generation is becoming a more important energy source and the focus of many countries is on renewable energy.

Renewable energy sources

From here, we take a closer look at some of the most widely used renewable energy sources in the world.

Solar Power The transition of heat, the energy that comes from the sun is referred to as solar energy. It has been utilized in a variety of ways by people all over the world for thousands of years. Solar power is versatile and it has been used for heating, cooking, and drying since the dawn of time. Because of the minimal maintenance costs

and low pollutant emissions, this is regarded as a cost-effective and environmental friendly renewable energy source. Some disadvantages are it depends on location and Sunlight availability, Solar Panels use a large amount of space and high initial Cost. But in tropical countries like Sri Lanka and India, it is much profitable to use solar panels during the daytime. There are two main types of solar power technology:

1. **Solar-photovoltaic technology:** Solar photovoltaic (solar PV) uses a semiconductor cell or solar PV cell to convert sunlight directly into electricity.
2. **Solar Thermal technology:** Solar thermal converts sunlight into heat. It also known as thermal energy.

Wind Power Wind is the flow of air from high-pressure areas to low-pressure areas. The method of generating electricity with wind energy is known as wind power. The kinetic energy in the wind is converted into mechanical power by wind turbines. Mechanical energy may be converted to electricity using a generator. Mechanical power can also be used for specialized purposes like water pumping. Wind power is cost-effective, clean fuel source and sustainable.

The wind is inconsistent, Installation can take up a significant portion of land and wind turbines can be noisy. These are some challenges of wind energy generation. However, wind power fulfills a significant portion of countries' energy needs.

Hydropower, often known as hydroelectric power, is a renewable energy source that creates electricity by altering the natural flow of a river or other body of water using a dam or diversion construction.

To generate electricity, hydropower uses the infinite, continually replenishing mechanism of the water cycle, which uses water that is neither decreased nor removed in the process. There are many types of hydropower facilities, but they are always driven by the kinetic energy of flowing water as it flows downstream. Hydropower converts kinetic energy into electricity using turbines and generators which is then sent into the electrical grid to power homes, companies and industries. There are four main types of hydropower Technologies. They are Run-of-river hydropower, Storage hydropower (Dams), Pumped storage hydropower, offshore hydropower.

Renewable hydropower is a clean, reliable, versatile and low-cost source of electricity generation and responsible water management. Impact on Fish, limited Plant Locations, higher initial Costs and flood Risk are some of the Hydropower plants supply as much as 40% of the energy required to satisfy Sri Lanka's power demand.

Unlike the conventional method which exists on typical clocks of lighting up the letters to spell out a phrase that tells the time, this variation has all the letters illuminated simultaneously but they are not focused. Each letter is lit from behind by an RGB LED mounted onto a linear actuator. The actuator brings the letter into focus to display the letter. When the LED is moving, it stops displaying the letters. We can say that the theory behind this is very simple although in practice it's very huge as it uses 114 servos, 320 3D printed parts, and custom PSB as the main electronic equipment.

SERVO WORLD CLOCK



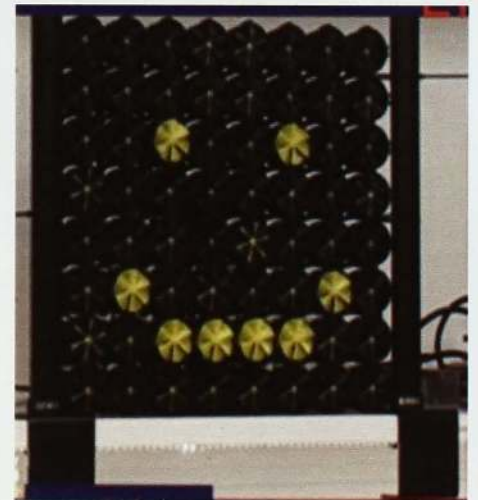
AIR HOCKEY ROBOT



Dominik Jaek and Ondrej Sláma decided to use the Air Hockey Robot which had been created from scratch as their course thesis. The project, which lasted roughly a year, it involved developing a user interface, computer vision, robot movement control algorithms, and game strategy algorithms. Fusion 360 was used to construct the game table, which was made of plywood and had an air cushion created by a mesh with 920 holes. A Raspberry Pi 4 is coupled to a Camera Module that is positioned in the overhead part of the frame. The team decided to use an "H-bot" design to move the robot's paddle for the mechanical component. It is moved using a pulley and belt system with two stepper motors from side to side.

Gavan Fantom thought about creating a basic decorative display for an office celebration, pixel electromechanical display was invented as a result of that. LED matrix would be far too plain and visible. Instead, he created and assembled Pixel, a clever electromechanical matrix display that uses no fewer than 448 3D-printed parts and is controlled by a Raspberry Pi. A servo rotates a 3D propeller-like object to disclose its brilliant yellow blades from a black housing, and each of the display's 64 "pixels" is switched on and off by it. Although it was influenced by conventional flip-disc electromechanical displays, its distinctive pixels may also be flipped to varying degrees to produce shading and ripple patterns that resemble greyscale. Seven 3D-printed components, one servo motor, and two nails are used in each pixel to convey the rotation of the latter so that the vanes may be seen.

PIXEL ELECTROMECHANICAL DISPLAY



POV DISPLAY



The optical phenomenon is known as POV and this whizzy Pico project is based on making moving pictures feasible in movies and on television. It relies on rotating LED strips to display an image. It was made by the Japan-based family team HomeMadeGarbage. It uses two of the Pico's PIO (Programmable IO) state machines to simultaneously drive a pair of extremely brilliant 24-LED DotStar strips on its spinning arm. A motor spins the arm, which also supports the Pico board, at a rapid rate, and the LED strips blink in precisely timed sync with the rotation speed to display a still image or an animated one.

The spinning arm is powered by a wireless charging module, which makes use of a coil on the underside of the latter and another on top of the motor.

Upanika Rathnayake
E19



Drawing Competition—1st Runners up
Siriwardane R.M.C.S
E18

Drawing Competition - 2nd Runners Up

P. Vinojan

E19





UNIVERSITY FUN MEMORIES

COMMON WINDOW

It was a morning lecture day of computing module in the first semester. I was found sleeping and sir told me to stand up. At that time, I knew nothing about the topic. What he usually does is whenever he catches students sleeping in class, he asks them questions and send them out. He asked me the name of what was shown in the slideshow. I really don't know. I looked around for any answers, two turned back to me and told me some answers.

One told its "**MATLAB**". I was confused because I know the answer definitely cannot be "**MATLAB**", the other answer is "**COMMON WINDOW**", which I think seems like an odd answer, let's just say it. I said out loud, "**COMMON WINDOW**". Sir looked at me strangely. Maybe he was looking at me because of how this guy came up with the answer. I thought he was looking at me because the answer was incorrect. He said, "Yes, it's the **COMMAND WINDOW**. Sit down". When I stand in the back, the sir couldn't catch what I was really saying. I laughed at myself because I just knew what I was saying.

IN SEARCH OF PUPPY

We were in the first year. Our seniors batch students were living in boarding. They had planned to go on a trip. One of them had a puppy with him. So, there is no one to take care of the puppy when they go on a trip. A friend of mine was given with the puppy to take care. We were in hostels those days and no dogs were allowed inside. So, he kept it very secretive. When he went to attend the lectures, the puppy came out. A security guard saw it was very beautiful, so he took it to his house. My friend was looking for the puppy and finally he knew the puppy had been taken by security. Then he wants to get it by going to his house. Since the security guard didn't understand Sinhala and my friend's Tamil was poor, he asked me to translate to help him. Then the security guard said to wait for us to wait for him to get off work, but we were in a hurry. So, we asked him the address and tried to go there. We walked around the Muri-kandy area. We couldn't find his house. The security guard didn't have any phones either. We also asked the villagers where

his house was by description, but no one knew. In the end, we walked a long way to get there. Then it was nearly 7 O'clock. But he's already there. He arrived an hour ago. We can save our time if we go with him. We laughed within us. In the end, the puppy wasn't there either. It has gone elsewhere. We got nothing. We don't know where we are and the villagers say you have to walk a long way as there are elephants roam these shortcut areas after 7pm. We had to rent a three-wheeler to return.

FIRE ALARM

It was also an ordinary day in the first year. We went to bed around 11 pm. Suddenly, the fire alarm went off, and it sounded well. Suddenly, the sub warden knocked on everyone's door and told us to get up and come to the first floor. We were scolded by the sub warden and none of us pressed the fire alarm. We thought the sub warden was deliberately yelling at us on the fire alarm. He punished us by standing on the ground floor all night. We yelled and waited on the ground floor. Then the students stayed in the ground floor rooms were came to us. They were final year agriculture faculty senior students. They scolded us not to quarrel, because they have an exam tomorrow. We had almost 100+ students there. Therefore, we could not remain silent. They came and scolded us many times. But we didn't stand there and shout about our wishes. We too have had enough. We were thinking to ourselves, getting scolded by these guys for no reason. We laughed within us. Some of us slept there. In the end we had to go to the room at 5 am. until now, we didn't know who pushed the fire button.

LOSS OF GRANDMA

During the soft skill program, an English lecturer gave us a task to deliver a short speech about an unforgettable event in our life. Since he asked me to deliver the first speech, I couldn't recall a better story. So, I talked about the day I lost my grandmother. While I was talking about it, I burst into tears, that lecturer consoled me and then I went back to my seat. But I was so embarrassed because there were almost a hundred students in that lecture hall. Still, it feels like "Oh! did I actually cry in front of everyone?". The funny part was after returning to my seat I noticed two of my friends also were crying after hearing my story, and I couldn't stop laughing after seeing their faces.

ROTATING CHAIR

As I remember, it was a day in first semester. Since we were new to the university, we felt some nervous. One day we were taken to the computer lab for the introduction session. There were computer tables with rotating chairs. We sat in those some students were rotating around 360 degrees. I sat in the 2nd row and the lectures was going on. At the middle of the lecturer, we heard a big sound and we were frightened. We turned back and looked here and there. One boy was laying like a frog on the floor. He had fallen from the rotating chair while he was playing with that. We knew not to smile when someone is in trouble, even though we couldn't stop our smiles. His friends helped him to stand up. The funniest thing was he also screamed and he couldn't able to bear his smile.

DINNER AFTER SURVEYING

It was a fun memory happened in our boarding. But it was not the fun for two of us. There are 5 civil engineering students in our boarding house. Three of us were in one group and other two were in another group for surveying. We

are almost halfway through the survey and we have to prepare our bearing sheet and coordinate sheet. That day, we couldn't get our dinner also, but we had to stay at night. For the groups who have done it wrong were sent to the boarding houses and hostels and those who were done the coordinate sheet correctly were said to complete the coordinate sheet of secondary peg also. Our group was done wrongly and we were sent, but those two in our boarding had to stay late-night until 11 pm. They returned to the boarding house hungry.

They put the rice on a plate along with the cooked dhal curry and start eating. One said the rice was sticking to his hand, the other agreed that the rice had changed a bit since they arrived late. Both of them kept eating. One of the boarding mates went inside the kitchen and looked that the rice kept separated for these two were remains same. He saw that the rice kept separately for dog which was two days old was taken by them. When he suddenly said it, these two were get upset and threw the food. They started vomiting all the night and slept without having dinner. One was repeatedly saying that he already found the rice was old and stuck to his hands. We were fully filled with laughs, but we controlled ourselves and consoled them. We laughed within us when they were vomiting in the bathroom. But even today, we are reminding this story and laughing with them.

MISSED THE BUS

It was the period when the batches were called one by one for the exams. So, a room was allocated for two people. We had Christmas off and we both planned to go home. There are not many buses to our hometown. Since we were late after finishing work, we were about to take the last bus. We have to walk to the bus hold from hostels. We got our passes from the security guard at the hostel gate and walked out. As the two of us were walking, my friend was in a hurry to go to the bathroom. We searched for toilets everywhere and went to Ariviyal Nagar railway station. After his work was done, we went to the bus stop and the bus had already left. So, we planned to take the early morning bus back to our hometown. We also couldn't go back to the hostels because we said most of our friends we were going home and they saw us leaving. We thought it shames us. But we got in without anyone knowing. One studies at a table outside the corridor. But we went secretly hiding from him. It was very funny at that time. While we were sleeping in our room, a friend of mine in the next room opened our door and entered by mistake. He was terrified and shocked when he saw us. We explained the story to him and told him not to tell anyone we missed the bus.

COVID (+) ve.....!

Until then I did never realize that I was breathing, yes COVID made me realize the suffocation of breathing difficulties. One evening after a family lunch, my sister and I got a mild fever. This fever lasted for 2 days. By that time, we had consulted our doctor, who prescribed some medicines to us. But one morning at 3 am, I got a high fever, which was over 100 F. At that point in time, my family thought I had been infected. So, the same day, I and my sister went through a COVID test. Our reports came the next day stating that we both were positive.

Although I and my sister had no connection with outsiders, we still developed the infection, which would have been possible from the packaging of provisions. It was a traumatic experience for our family, all members were really tense. We experienced severe body aches, fatigue, chills, headache, loss of appetite and the worst of all was the loss of smell. But in the meantime, after 14 days we decided to have a test again, this time the reports came, and it was negative. This gave us a huge relief. We started recovering, but still had post-COVID symptoms, and being isolated was so disturbing as well. Even after testing negative, I felt like lying down in bed and sleeping, feeling tired even when eating, and having a complete loss of smell. I felt all this severely hit me mentally. I'm ever so grateful for my friends who called me up constantly and made me laugh through all the pain and to my family who care - we survived thanks to their love and constant support.

A REP FOR EACH FLOOR

We came for the university after a long vacation for the second time. We were required to stay 14 days for quarantine and continuously under a bio bubble within university premises. As it was Covid period, travelling by public transport are not advice able. So, most of the students came by reserving buses district wise. Some of my friends came with me in the bus went to the back seats of the bus and consumed alcohol.

After reaching to the university hostel premises, one room is allocated for three persons. We got the keys from sub warden and settled into our room. Due to the quarantine period, all rules and regulations should be strictly followed. In order to educate us about the rules and regulations, they took away the students from every floor one by one. We were in the first floor. After the meeting of ground floor, we were called up. We stood one meter apart from each. Our warden was there to address us. One of my friends who was totally on doped was standing on the front row. He shook his head at every word our warden said. Our warden might think, this guy is paying full attention to the speech. Soon, they said, a representative will be assigned to each floor to collect food orders and forward them to the canteen staff. Food will be delivered to the orders requested. They asked for a volunteer to be the floor representative. The friend I mentioned earlier also shook his head. Immediately, warden asked that are you voluntarily giving your name? He shook his head. Then warden took his name. After the meeting, they said the floor representative should stay and get instructions. Until then he did not know that he had been appointed as a representative.

KEY FOR RIDDLE

1. There are 3 possible ways
51 and 15
42 and 24
60 and 06
2. 410
3. Infinity. Technically you will never reach the door
4. $888+88+8+8+8=1000$
5. 1694
6. Turn it upside down
7. Red, Blue, Green, Black
8. 28 seconds
9. 3 (Number of circles in each number mentioned beside the equal)
10. 40 cents. The price of each fruit is calculated by multiplying the number of vowels by 20 cents
11. The person was born in 2030 B.C. (Before Christ). Therefore, he was 5 years old in 2025 B.C, 10 in 2020 B.C, and 15 in 2015 B.C.

Everyone has a memorable day, which not only gives them pleasure, but they also cherish them whenever they recall. Similarly, I too have many memories but the one which makes me happy is my first day in university. My first day at Uni is an important event of my life. To me, it is an unforgettable day. During my school days, I saw my cousins' Uni life. I was most curiously waiting for the day when I would start my Uni life. I thought that Uni life would offer me a carefree life; here restrictions would be few and the threat of teachers would be little. At last, the day came in. It was a day full of adventures, surprises, and new beginnings. I was admitted to the Faculty of Engineering, University of Jaffna of my city, Kilinochchi. When I was making the first step into the campus, a lot of things were running through my mind such as the joy of this achievement, the struggles I faced during A' level, my new responsibilities, hostel days to be faced away from my home, and so on.

What a day it was

It was a nerve-wracking moment in my life because it was new, I didn't know anyone, and I was highly worried about the ragging. I was ready to face any of these problems because I trained myself by watching a lot of university-based movies during my holidays. In reality, my seniors were too friendly and very helpful. I saw big buildings everywhere. It was scaring me. However, I managed to reach the orientation class with the help of a senior. There I found a lot of newly admitted students like me. I felt so lonely because they all were unknown to me. We were brought around the university for the orientation session. We introduced ourselves and made a good bonding with each other. I could make some new friends there. But then I suddenly got remembered what my grandmother advised me last night, 'Don't believe anyone blindly, friends are very dangerous to live, they will lead you to bad habits, they will cheat you or may kill you sometimes, don't you read the newspaper? '. These words had been scaring me a lot. Then after I reached the first day of lectures, I

was surprised by the style of lecturing and the flexibility which I didn't feel before so, I told myself 'Hey, you don't need to worry about the teachers anymore as I did in the school'. After completing the lectures, we were brought to the hostel in the evening. This was the first time I stayed a night away from my home so, how could I fall asleep? I was worrying in my room thinking about my home. Then I saw my roommates, they all were chatting and laughing around the room. Some of their activities remembered me of my grandmothers' scary words. After a long time, I managed for a nap, but suddenly some students pulled me out of the bed and brought me to the hall. That time I didn't know even their names. Everyone was dancing and singing, but initially, I thought it was a zombie conference. After watching them, I was unable to control myself to become a zombie. We celebrated our arrival, no sooner got caught by the security guard. He frowned at us like a villain from Malayalam

movies and starred everyone with fiery eyes and a big mustache. Initially, he scolded us but left us with some warnings. Then the time was almost two in the morning so, I went back to sleep. I closed my eyes in bed with the satisfaction of this day and the excitement of the coming days, and the curiosity of meeting my parents on leave for sharing my experiences also, I got a new obligation. Guess what, I need to tell my grandmother that friends are not what you think, they are too good for life. Life treats everyone with different things, experiences and memories. Some are as sweet as sugar and others as bitter as hemlock. Everyone carries a collection of reminiscences, events, and moments with them. It is part of life. There are a few things and incidents that are kept in our minds for a lifetime.

Vithusan A.
E19



E13

FACULTY OF ENGINEERING, UNIVERSITY OF JAFFNA



E14
FACULTY OF ENGINEERING, UNIVERSITY OF JAFFNA



E15
FACULTY OF ENGINEERING, UNIVERSITY OF JAFFNA



E16

FACULTY OF ENGINEERING, UNIVERSITY OF JAFFNA



E17

FACULTY OF ENGINEERING, UNIVERSITY OF JAFFNA



ADMINISTRATION BLOCK
FACULTY OF ENGINEERING

E18

FACULTY OF ENGINEERING, UNIVERSITY OF JAFFNA



E19

FACULTY OF ENGINEERING, UNIVERSITY OF JAFFNA

E-WEEK 2K22
FACULTY OF ENGINEERING



E20

FACULTY OF ENGINEERING, UNIVERSITY OF JAFFNA



E21

FACULTY OF ENGINEERING, UNIVERSITY OF JAFFNA

A GLIMPSE OF E-WEEK 2020

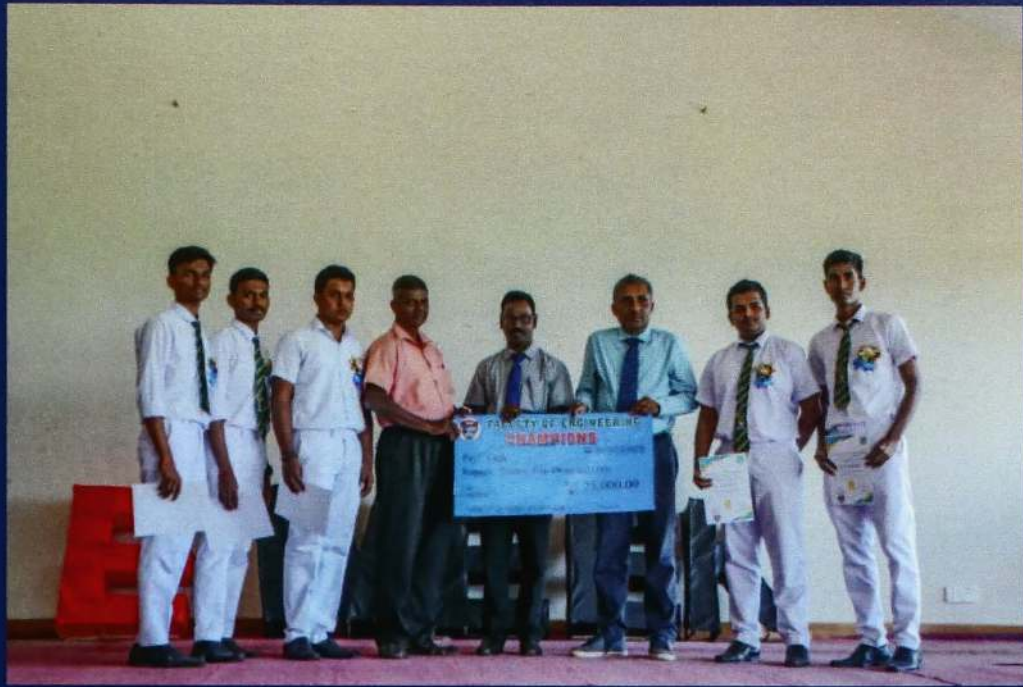
E-WEEK—the name itself evokes joy, fun, and friendship among engineering students. After all the exams, quizzes, and assignments, we had a perfect time for celebrating and making precious moments of our life as one engineering family. We, E17, launched fresh events, including a blood donation camp, a quiz competition, a marathon, poetry, and an art competition that spotlighted the hidden talents of our friends beyond gender, and an exhibition that showcased our own products and attracted the society, especially the school students. All the guys actively organized activities for days and nights with massive interest. All batches gave their all to win the trophy, boosting their batch's pride. Along with the participation, cheering up their favorite participants made the events more peculiar. In the end, E-WEEK concluded with a prize-giving ceremony and staged some award-winning performances to entertain the audience. Overall, E-WEEK not only boosted our friendship but also gave us thousands of memories, which we will cherish forever and more.



Q-Fiesta | Photo Gallery



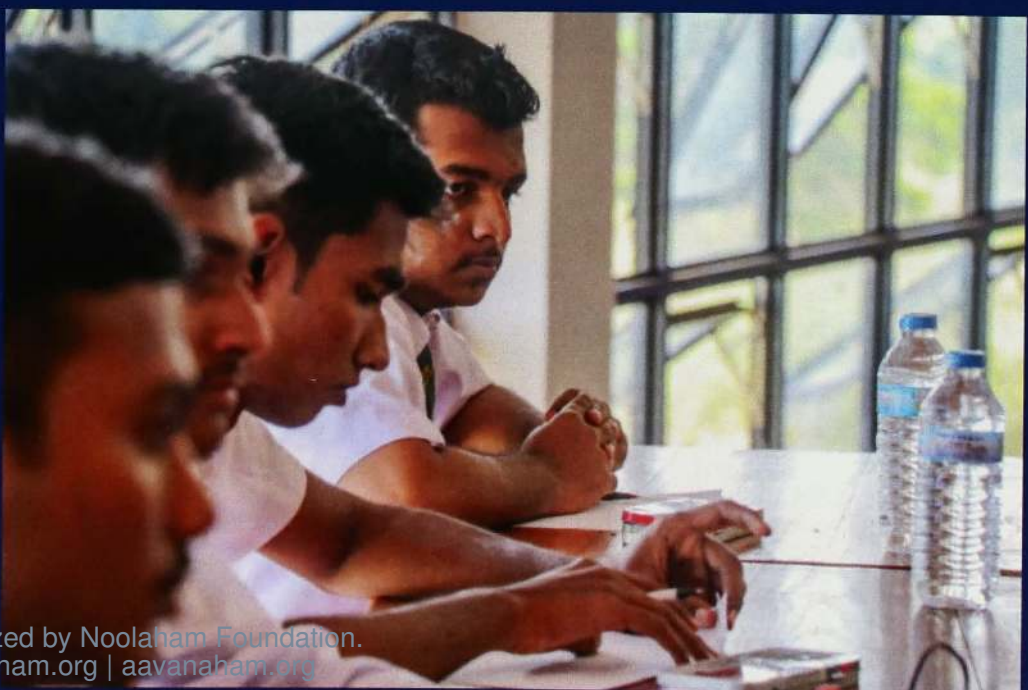
Q-Fiesta | Photo Gallery



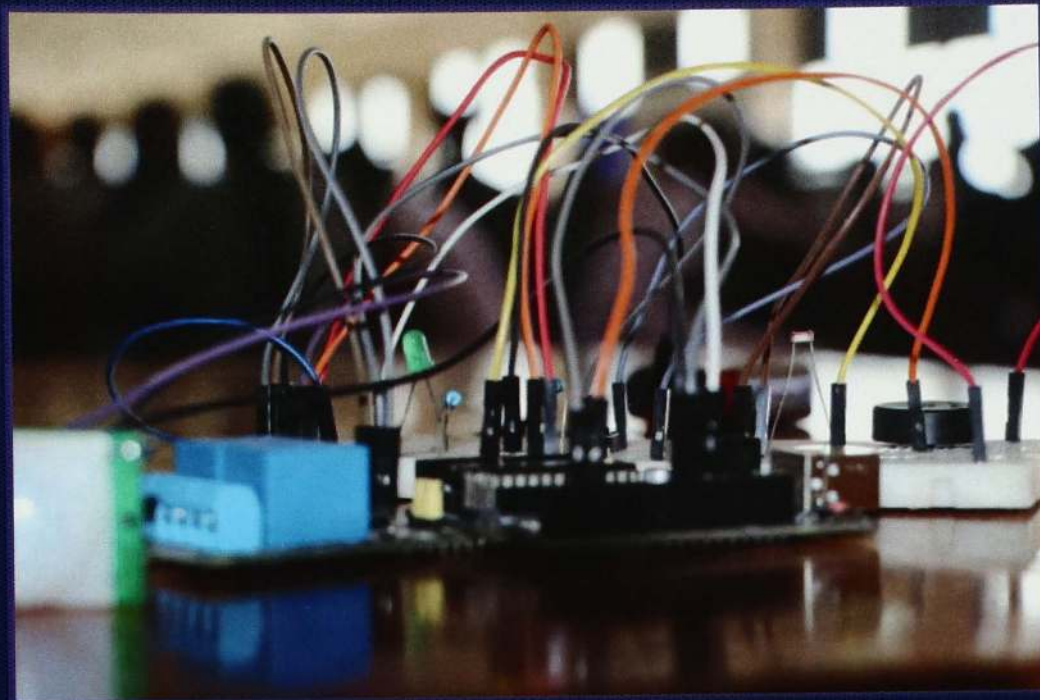
Q-Fiesta | Photo Gallery



Q-Fiesta | Photo Gallery



Workshop | Carrier Guidance | Photo Gallery



Workshop | Carrier Guidance | Photo Gallery



Workshop | Carrier Guidance | Photo Gallery



Workshop | Carrier Guidance | Photo Gallery



GOOD MEMORIES; BAD MEMORIES

What was his loss?

Might be a great loss

Something he achieved before...

Something he desired to achieve...

Something he owned before...

Something he desired to be his...

Whatever he lost

Brings back his memories

Good memories; but he worries

Does the loss made him worry?

Or the memory made him worry?

No! the moment he realizes there will be

No more of these memories

Made him worry

He might lose the loved ones

He worried; as the one he adored

The more he loved- the more he sored

He could bind the love

But it was unbounded...

He could replace the love

But only the feelings...

A maternal bond cannot be replaced

A reliable friend cannot be replaced

What was his loss?

He begged for a loss free of grief

So selfish he was...

He tried to kill himself to get relief

More selfish he was...

Gaining and losing form a closed chain.

It's the chain of joy and grief on wheels

Each joy has to be rotated

Each grief has to be rotated

He has to rotate it

What was his loss?

He rotated the chain

Where was the pain?

Brings back his memories

No more worries; only bad memories

Kishotharan S.

English poetry 2nd runner up

E19

During the COVID Period in 2021, we were at our homes waiting for the recommencement of Academic Activities, and that wait continued for six months. Although it was like a long holiday, it felt a bit bad since the whole batch is not together at the premises. We were seeking an opportunity to however get united in a common cause and to experience the batch feeling within our home. Then the 2nd Year Anniversary of E 19 Came Right on time. We have

#WWE19

sensitive issues in their families. We went there to find out what is the most important need for them at the time through which we can support them.

There we got to know that the children are having difficulties to full fill their daily meals due to the economic situation during the Covid Period. So we decided to help them as a batch and planned to do a small donation drive on behalf of our anniversary. With the help of many generous hearts, we were been able to



arranged a zoom virtual meeting to discuss what we are going to do.

Rather than being just a celebration, we thought of going beyond the tradition. Parallel to the Anniversary we wanted to do something impactful for society. We were seeking such an opportunity. In our seeking, we got to know about a school where our support was needed.

Rambaweva Primary school, Puttalam - A primary school with around fifty students from grades 01 - 05, which is situated in an area where human-elephant conflict exists. Most of the school children are living with their grandparents due to several

buy Rice, Flour, Noodles, Dhal, Sugar, and many more essential items for them. We prepared 50 parcels of Essential goods and visited them on the 17th of November 2021. It was a wonderful moment to witness. When handing over the parcels we have seen joyful smiles on the faces of the little children, the teachers, and the parents of the children thanked us for understanding their needs at the time. It gives us immense pleasure on doing such an impactful project for Society on behalf of our second year Anniversary and it made our Anniversary so special by filling our hearts with Generosity.

INOJ PERERA E19

"In a society that functions optimally, those who can should naturally want to provide for those who can't. That's how it's designed to awork. I truly believe we're here to take care of one another."

— LeVar Burton

