



SETHU

INSTITUTE OF TECHNOLOGY

AN AUTONOMOUS INSTITUTION | ACCREDITED WITH 'A++' GRADE BY NAAC

Pulloor, Kariapatti – 626115, VIRUDHUNAGAR DISTRICT.



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



SOECE

ADROIT 2K'24



SETHU INSTITUTE OF TECHNOLOGY

(Accredited by NBA, New Delhi)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

ADROIT 2K'24



ADROIT 2K'24

EDITORIAL COMMITTEE

Mrs. A. Shakin Banu AP/ECE

Ms. A. Jansirani AP/ECE

STUDENT MEMBERS

Ms. R. Nishma Banu IInd Year/ECE

Mr. B. Mohan Raj IInd Year/ECE

Ms. K. Sakthi IInd Year/ECE



YEARLY MAGAZINE
DEPARTMENT OF ECE

Chief Patron : Mr.S.Mohamed Jaleel
Chairman

Patron(s) : Mr.S.M.Seeni Mohaideen
Chief Executive Officer

: Mr.S.M.Seeni Mohamed Aliar Maraikkayar
Joint Chief Executive Officer

: Ms.S.M.Nilofer Fathima
Director - Administration

: Dr.S.M.Nazia Fathima
Director – R&D

President : Dr.G.D.Sivakumar
Principal

Vice President(s) : Dr.M.Parisa Beham, HOD - ECE

: Dr.R.Tamilselvi - Dean - BME/BT/Chemical
PG Head - COS

Faculty In-charge : Dr.P.Mahalakshmi, ASP/ECE

: Ms.J.Judith, AP//ECE

VISION AND MISSION OF THE INSTITUTE

Institute Vision:

To promote excellence in technical education and scientific research for the benefit of the society.

Institute Mission:

- To provide quality technical education to fulfill the aspiration of the student and to meet the needs of the industry.
- To provide a holistic learning ambience.
- To impart skills leading to employability and entrepreneurship.
- To establish effective linkage with industries.
- To promote Research and Development activities.
- To offer services for the development of society through education and technology.

VISION AND MISSION OF THE DEPARTMENT

Department Vision:

To achieve excellence in education and research in the field of Electronics and Communication Engineering for the development of society.

Department Mission:

- Imparting quality technical education in Electronics and Communication Engineering through contemporary laboratory facilities and accomplished faculty to cater to the needs of the industry.
- Providing a conducive learning environment through the state-of-the-art infrastructure and innovative teaching learning practices.
- Infusing the professional skills needed for employability and entrepreneurship.
- Collaborating with industries for mutual benefit of knowledge transfer.
- Promoting research in Electronics and Communication Engineering.
- Providing services to the society through extension activities and technology enabled service.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO's)

- Possess strong technical knowledge in Electronics and Communication Engineering to address the real-world challenges. (Core Competence)
- Demonstrate continual interest in learning new technologies for a successful professional career. (Lifelong Learning)
- Exhibit professional skills and practice ethical principles with social consciousness. (Professionalism)

PROGRAMME OUTCOMES (PO's)

- 1 Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. (**Engineering knowledge**)
2. Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. (**Problem Analysis**)
3. Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations. (**Design and Development of Solutions**)
4. Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the Information to provide valid conclusions. (**Conduct Investigations of Complex Problems**)

5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. (**Modern Tool Usage**)

6. Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to professional engineering practice. (**The Engineer and Society**)

7. Understand the impact of professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. (**Environment and Sustainability**)

8. Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice. (**Ethics**)

9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. (**Individual and Teamwork**)

10. Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. (**Communication**)

11. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. (**Project Management and Finance**)

12. Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. (**Life-long learning**)

TOPPERS

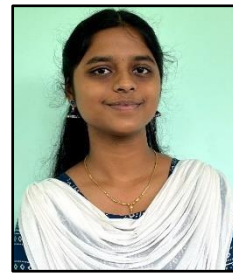
II YEAR



SRIDHAR G
921723104142
CGPA-9.53



BARATHIMEENA G B
921723104013
CGPA-9.41



SASIREKHA T
921723104125
CGPA-9.4

III YEAR



JANANI S V
921722104064
CGPA- 9.62



DEEKSHANA P
921722104044
CGPA- 9.50



POOJA K
921722104113
CGPA-9.48

IV YEAR



JEEVANA OVIYA D
921721104046
CGPA-9.35



SRIRAM V
921721104142
CGPA-9.32



ADITHYA D
921721104004
CGPA-9.24



ARTICLES

ISRO completes its RLV technology demonstrations through LEX trio

The Indian Space Research Organization (ISRO) has proudly achieved a third consecutive success in the Reusable Launch Vehicle (RLV) Landing Experiment (LEX) on June 23, 2024. The third and final test in the series of LEX (03) was conducted at 07:10 IST at the Aeronautical Test Range (ATR) in Chitradurga, Karnataka.

Following the success of the RLV LEX-01 and LEX-02 missions, RLV LEX-03 re-demonstrated the autonomous landing capability of the RLV under more challenging release conditions (cross range of 500 m against 150 m for LEX-02) and more severe wind conditions. The winged vehicle, named 'Pushpak', was released from an Indian Air Force Chinook Helicopter at an altitude of 4.5 km. From a release point 4.5 km away from the runway, Pushpak autonomously executed cross-range correction maneuvers, approached the runway and performed a precise horizontal landing at the runway centerline. Due to this vehicle's low lift-to-drag ratio aerodynamic configuration, the landing velocity exceeded 320 kmph, compared to 260 kmph for a commercial aircraft and 280 kmph for a typical fighter aircraft. After touchdown, the vehicle velocity was reduced to nearly 100 kmph using its brake parachute, after which the landing gear brakes were employed for deceleration and stop on the runway. During this ground roll phase, Pushpak utilises its rudder and nose wheel steering system to autonomously maintain a stable and precise ground roll along the runway.

This mission simulated the approach and landing interface and high-speed landing conditions for a vehicle returning from space, reaffirming ISRO's expertise in acquiring the most critical technologies required for the development of a Reusable Launch Vehicle (RLV). Through this mission, the advanced guidance algorithm catering to longitudinal and lateral plane error corrections, which is essential for the future Orbital Re-entry Mission has been validated. The RLV-LEX uses multisensor fusion including sensors like Inertial sensor, Radar altimeter, Flush air data system, Pseudolite system and NavIC. Notably, the RLV-LEX-03 mission reused the winged body and flight systems as such without any modification, from the LEX-02 mission, demonstrating the robustness of ISRO's capability of design to reuse flight systems for multiple missions.

This mission simulates the approach & landing interface and high-speed landing conditions for a vehicle returning from space, which will reaffirm ISRO's expertise in acquiring the most critical technologies required for the development of a Reusable Launch Vehicle (RLV).

The mission, led by VSSC, was a collaborative effort involving multiple ISRO centres SAC, ISTRAC, SDSC-SHAR and IISU, with significant support from the Indian Air Force (IAF), Aeronautical Development Establishment (ADE), Aerial Delivery Research and Development Establishment (ADRDE), Regional Centre for Military Airworthiness (RCMA) under Centre for Military Airworthiness and Certification (CEMILAC), National Aerospace Laboratories (NAL), Indian Institute of Technology, Kanpur, Indian aerospace industrial partners, Indian Oil Corporation of India and Airport Authority of India.

Courtesy: ISRO

Indian Space Research Organization (isro.gov.in)



**Mr V. Meenakshi Sundaram,
AP/ECE.**

Interesting Facts of Life

வாழ்க்கைகைப் பற்றிய சில சுவாரசியமான தகவல்கள் .நமது அமெரிக்கா அதிபர் பராக் ஒபாமா தனது 55 வது வயதில் அமரிக்கை அரசியலில் இருந்து ஓய்வு பெறுகிறார்

ஆனால் டொனால்ட் ட்ரம்ப் தனது எழுபதாவது வயதில் தான் அமெரிக்கா அதிபர் ஆகிறார்.பில் கேட்ஸ் தனது 30 வயதிலேயே உலகில் மிகப்பெரிய பணக்காரராக மாறுகிறார் .

ஆனால் இண்டி (Intitex) டெக்ஸ் ஸ்பெயின் ஓனர் தனது 50ஆவது வயதில் தனது கம்பெனியை ஆரமித்து சுமார் 30 ஆண்டுகளாக போராட்டத்திற்கு பிறகு தனது என்பதாவது வயதில் உலகின் மிகப்பெரிய பணக்காரர்ஆகிறார்.

நமது சியான் விக்ரம் தனது ஆரம்ப காலகட்டத்தில் சரியான படவாய்ப்புகள் இல்லாமல் தனது 34ஆவது வயதில் நடித்த சேது படம் தான் அவருக்கு ஒரு திருப்பு முனையாக அமைந்தது

ஆகவே, வாழ்க்கையில் எல்லோருக்கும் எல்லாமே சரியான நேரத்தில் கிடைத்து விடுவது இல்லை இன்னும் சொல்லப்போனால் 24 வயதில் திருமணம் புரிந்த ஒருவர் தனது முப்பதாவது வயதில் எதிர்பாராத விதமாக இறந்து விடுவதும், மிகுந்த போராட்டத்திற்கு பிறகு 40 வயதில் திருமணம் புரிந்த ஒருவர் நல்ல ஆரோக்கியத்துடன் தனது 62 ஆவது வயதில் தனது மகளின்

திருமணத்திற்காக வரன் தேடி கொடுப்பதும், நாம் இயல்பாக காண கூடிய ஒரு விஷயம். ஆகவே நமக்கு ஒன்று கிடைத்து விட்டது என்பதற்காக அது கிடைக்காத ஒருவரை ஏளனமாக பார்ப்பதும், மாறாக நமக்கு கிடைக்காத ஒன்று மற்றவருக்கு கிடைத்து விட்டது என்பதற்காக அதை பார்த்து ஏங்குவதும் தேவை இல்லாத ஒன்று

இந்த வாழ்க்கை மிக அழகான ஒரு பயணம் நாம் அதை அனுபவித்து வாழ வேண்டும். வாழ்க்கை என்பது ஒரு முறை, ஆகவே ஒவ்வொரு நொடியையும், அழகாக ரசித்து மன நிறைவோடு வாழ வேண்டும். இந்த வாழ்க்கை என்பது பல அதிசியங்களும், அற்புதங்களும் நிறைந்த ஒன்று இந்த உலகமே ஒரு மிகப்பெரிய விபத்தினால் உருவான ஒன்று. ஆகவே தேவை இல்லாத மனக்குழப்பங்களும், எதிர் கால வாழ்க்கையை பற்றிய பயமும் தேவையில்லாத ஒன்று

இந்த நொடி அழகானது இதை ரசித்து மகிழ்ச்சியாய் வாழ்வோம், செய்கின்ற ஒவ்வொரு செயலையும் சிறப்பாக செய்வோம், நாளை வாழ்க்கை சிறப்பாக அமையும் , Have a Good Day.

Mr V. Meenakshi Sundaram,
AP/ECE.

COOLING TECHNIQUES IN PCB DESIGN

FOR SMALL NODE CHIPS

There is a general trend of reducing the size of chips, aiming toward form factors as small as 3nm and 2nm, and this trend is expected to drive IoT and general AI chip development. With this trend arises with three distinct issues as follows

- **Increased power density:**

Smaller, advanced chips have higher power density and generate more heat due to increased circuitry in a smaller area.

- **Reduced surface area for heat dissipation:**

Smaller form factors generally mean less surface area is available for heat dissipation, making it more challenging to dissipate heat efficiently.

- **Thermal resistance:**

Smaller form factors can also result in higher thermal resistance within the chip itself. As the chip shrinks, there is less space for heat to spread and dissipate, leading to increased thermal resistance.

To moderate these challenges, semiconductor companies are developing and employing several cooling technologies to manage and help dissipate heat generation during operation, including heat sinks, fans and blowers, liquid cooling, vapour chambers, phase change cooling and thermoelectric cooling.

Example:

In its iEP-5000G Series of industrial IoT controllers, **ASRock** motherboard utilizes copper heat pipes to solve the heat dissipation issue. A heat pipe is a tubular device embedded beneath the PCB, circulated all around the PCB areas where the temperature rises beyond the required limit. ASRock includes both heat fins on the casing and internal heat pipes of the iEP-5000G.

**Dr. V. Gopi,
Professor/ ECE**

FROM DEBUTANT TO CAPTAIN –

THE BURDEN OF BEING ROHIT SHARMA



Only 9 men in the history of T20 cricket can call themselves T20 World Cup winners twice over. Of these, 8 men were part of the West Indian sides that won in 2012 and 2016 - a four-year cycle that saw the team from the Caribbean boss the format.

The ninth man made his international debut during the inaugural T20 World Cup, and played an important role in helping India win the trophy. Rohit Sharma batted only 3 times in the 2007 T20 World Cup, but he was unbeaten on each occasion. His 50* in his maiden international innings saw him win Man of the Match against South Africa. A crucial 30* vs Pakistan in the final - India's second-best score of the innings - ensured India had a defensible score.

That young lad who played a couple of spirited innings and tasted instant success in the 2007 edition has had to wait 17 years before lifting the trophy again. This time, he did so as the captain. Post this historic win, Rohit Sharma announced his retirement from T20Is, marking the end of an incredible journey in the shortest format of the game.

Rohit has proven to be an invaluable member of the team throughout his T20I career. The first half of his career had flashes of brilliance - such as his knock against Australia in the 2010 T20 World Cup where he scored 79* in an innings where the next best score for India was 13.

Post his move to the top of the order, the floodgates truly opened. Rohit's stats before he started opening were decent, especially for the early years of T20 cricket: An average of 28.29 and strike rate of 126.24 across 27 innings.

As an opener, though, Rohit was unparalleled. The average jumped to 32.60 while the strike rate ballooned to 143.02. In 2015, he became the second Indian cricketer after Suresh Raina to score a century in T20Is, achieving the feat against South Africa.

He would go on to add four more centuries to his kitty, ending his career with the joint most T20I centuries, tied with Glenn Maxwell. But Rohit also has 32 fifties, comfortably clear of Maxwell's 11.

In 2017, Rohit hit a century off just 35 deliveries against Sri Lanka, tying the then-record for fastest T20I century with David Miller. It remains the joint fastest T20I century against a full member nation.

Rohit Sharma's records in T20Is are remarkable. He holds the record for the most runs in T20Is (4231), a testament to his consistency and longevity. He was the first cricketer to hit 200 sixes in T20Is and has hit over 600 sixes across all formats, the most by any cricketer. Additionally, he holds the record for hitting the most sixes as an opener in T20Is (184). Rohit is also the only Indian cricketer to have played in all editions of the T20 World Cup since its inception in 2007, showcasing his endurance and adaptability over the years.

Rohit's captaincy has been as stellar as his batting. He led India to victory in the 2018 Nidahas Trophy when regular skipper Virat Kohli was unavailable. Named the full-time skipper after the 2021 T20 World Cup, Rohit became the first captain to win 50 T20I matches. The 2024 T20 World Cup win was the pinnacle of his captaincy career. After the disappointment of the 2023 ODI World Cup, he focused on the 2024 T20 World Cup, and his efforts paid off.

Following the 2022 T20 World Cup Semi-Final, Rohit told Dinesh Karthik that they needed to play differently, and he backed his words with actions. He played one of his best T20I innings, scoring 92 off just 41 balls against Australia to virtually knock them out of the tournament. Continuing his form, he scored 57 off 39 deliveries on a tough Guyana pitch in the semi-final against England.

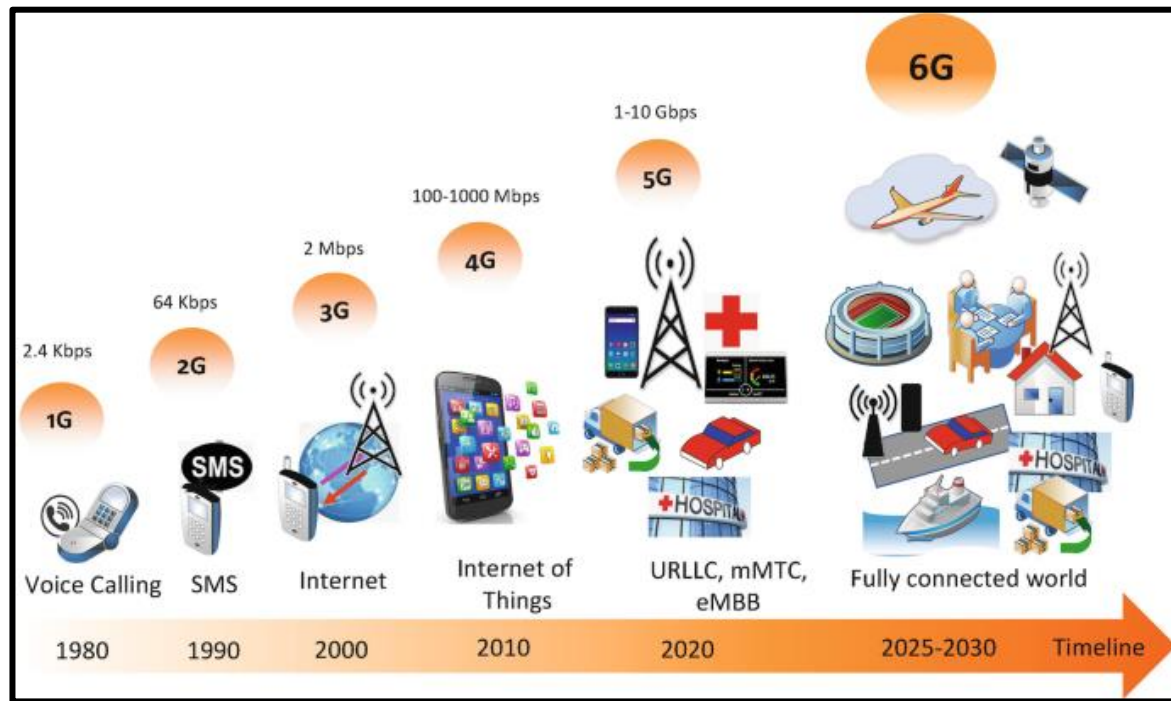


In the 2024 T20 World Cup final, although his contribution with the bat was modest, his captaincy was exceptional, especially towards the end of the game, where he effectively managed the pressure against South Africa. His strategic acumen and calm demeanor under pressure were instrumental in guiding India to victory. The moment India won the World Cup, the emotions were palpable. The iconic image of Rohit Sharma and Virat Kohli celebrating together will be cherished by fans for years to come as both legends retired after this memorable victory.

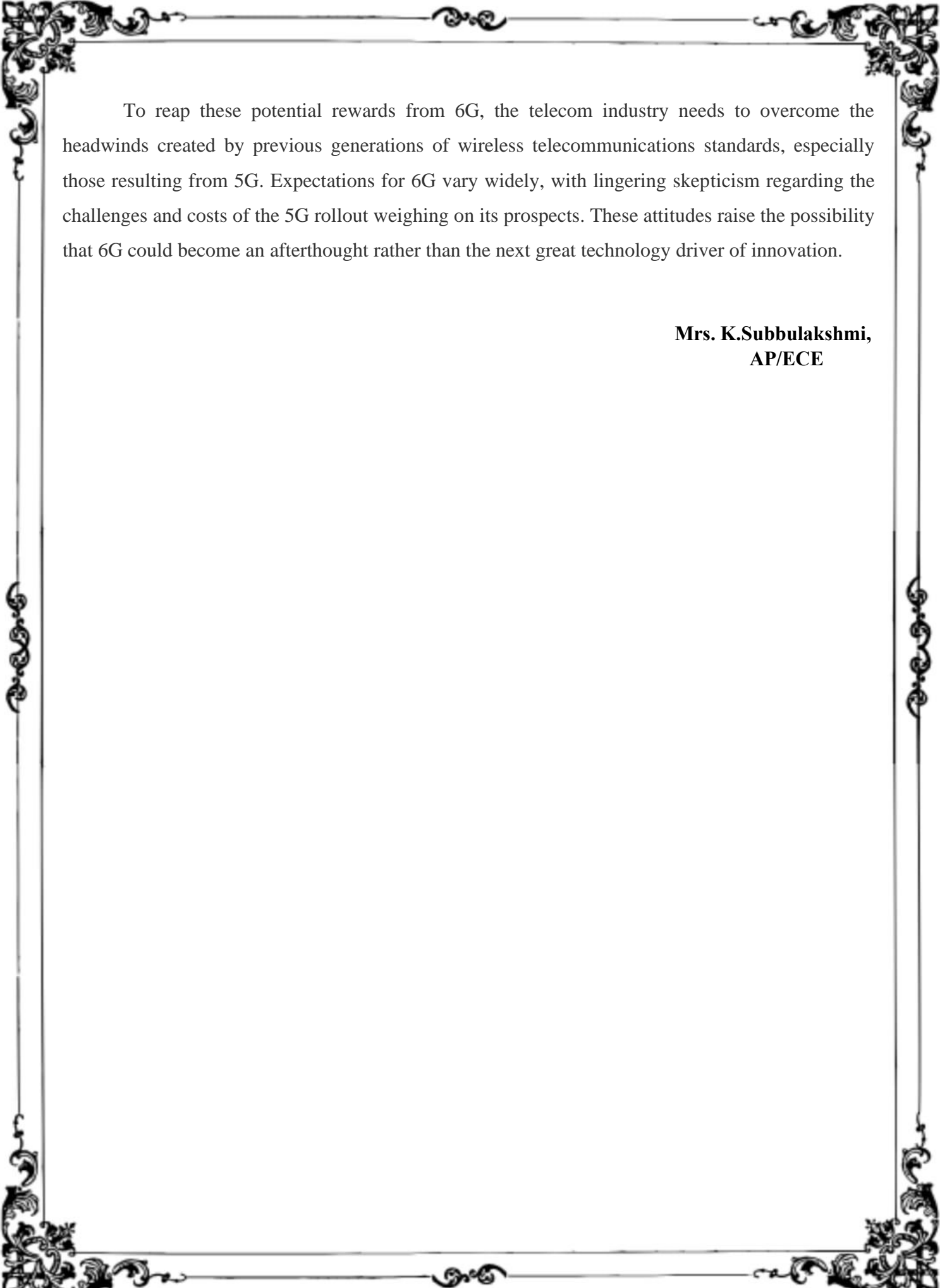
Rohit's influence extended beyond his statistics and records. He inspired a generation of cricketers with his performances, leadership, and work ethic. His journey from a young kid playing in the maidans of Mumbai to leading India to a World Cup victory is a story of dedication, perseverance, and excellence. As he bids farewell to T20Is, the legacy he leaves behind will continue to inspire future generations of cricketers and fans alike.

**Dr.M.Pandimadevi ,
ASP/ECE**

6G TECHNOLOGY



A 6G network is defined as a cellular network that operates in untapped radio frequencies and uses cognitive technologies like AI to enable high-speed, low-latency communication at a pace multiple times faster than fifth-generation networks. 6G networks are currently under research and development, yet to be released. This article discusses the new generation of cellular data networks, 6G. The telecommunications industry's investments in disruptive wireless technologies over the past few decades have radically reshaped people's daily lives, enabled the creation of massive new businesses, and transformed entire industries. Yet even as each new wireless generation has introduced new services, lowered costs, and improved performance, telcos have increasingly struggled to benefit from the unprecedented value creation. The next-generation mobile standard, 6G, offers telcos the opportunity to change the status quo and revitalize the industry. If developed thoughtfully, 6G has the potential to attract sufficient cross-sector investment, drive innovation, grow adoption, and spark future waves of disruptive technologies.



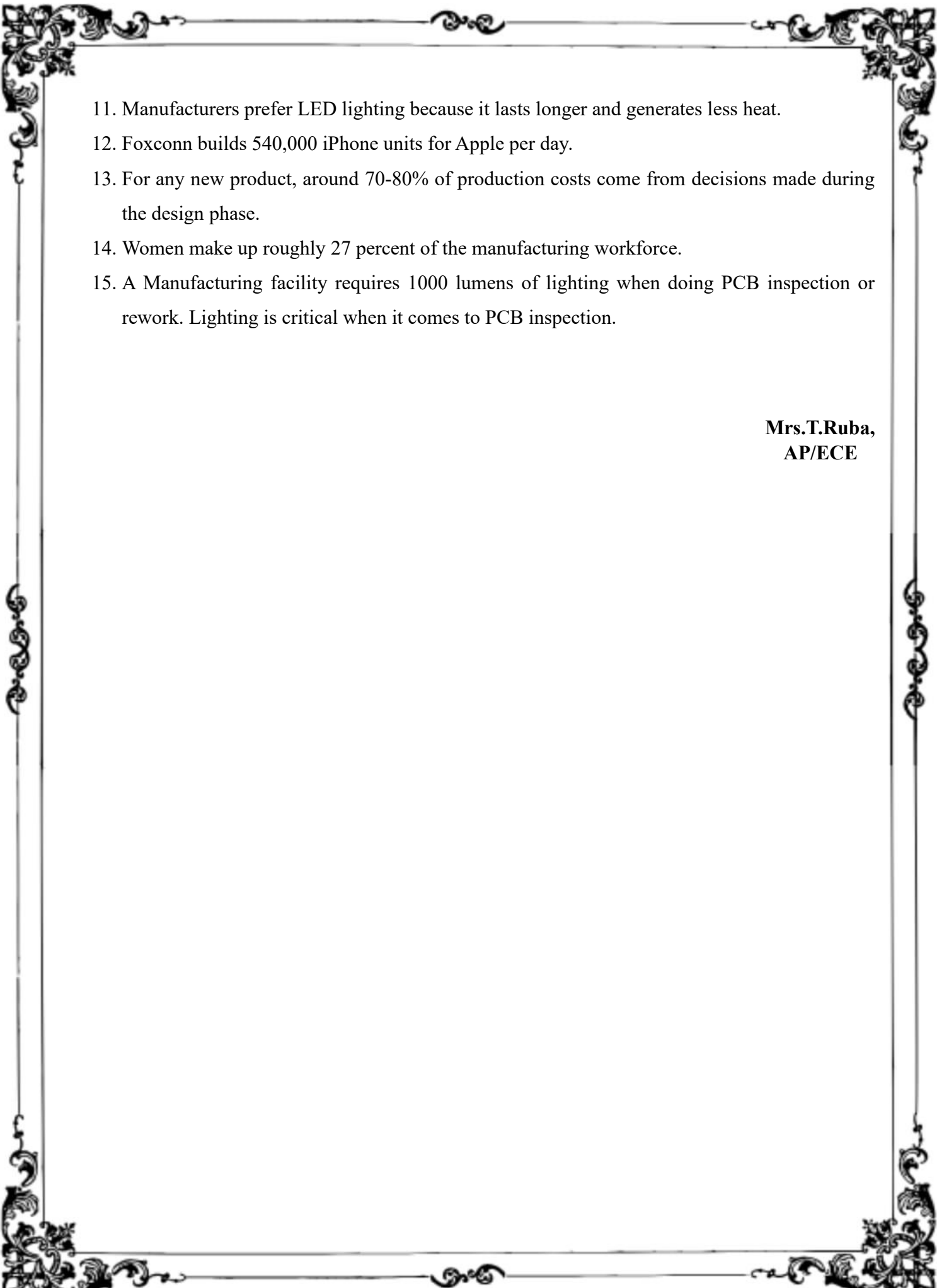
To reap these potential rewards from 6G, the telecom industry needs to overcome the headwinds created by previous generations of wireless telecommunications standards, especially those resulting from 5G. Expectations for 6G vary widely, with lingering skepticism regarding the challenges and costs of the 5G rollout weighing on its prospects. These attitudes raise the possibility that 6G could become an afterthought rather than the next great technology driver of innovation.

**Mrs. K.Subbulakshmi,
AP/ECE**

15 - FACTS ABOUT ELECTRONIC MANUFACTURING INDUSTRY



1. Printed circuit boards are almost always green because they are made from a glass-epoxy, which is naturally green.
2. Flexible PCBs are built on flexible high-temperature plastic like Kapton.
3. Manufacturing floors need to be above 30 percent (rH) humidity or the solder paste dries out causing process issues.
4. Some manufacturers have mist machines, which humidifies the dry air during the winter months. The mist evaporates before it hits the ground.
5. The invention of the PCB is generally accredited to Paul Eisler, an Austrian inventor. Eisler developed the first PCB when working on a radio set in 1936.
6. Some SMT (Surface mount technology) Machines are capable of placing 136,000 components an hour.
7. According to Moore's Law, microchips double in power every 18 to 24 months. Gordon E. Moore, a founder of Intel, proposed the concept in 1965.
8. Surface mount designed PCBs are up to one tenth of the size of through-hole circuits.
9. Walking across a carpet can generate up to 35,000 V of static electricity.
10. A Siemens SMT line can place a component as small as 01005 (0.4 mm x 0.2 mm) on a board. It is so tiny you would need a microscope to see it.

- 
11. Manufacturers prefer LED lighting because it lasts longer and generates less heat.
 12. Foxconn builds 540,000 iPhone units for Apple per day.
 13. For any new product, around 70-80% of production costs come from decisions made during the design phase.
 14. Women make up roughly 27 percent of the manufacturing workforce.
 15. A Manufacturing facility requires 1000 lumens of lighting when doing PCB inspection or rework. Lighting is critical when it comes to PCB inspection.

**Mrs.T.Ruba,
AP/ECE**

BEST WEBSITES FOR PLACEMENT PREPARATION

1. PrepInsta

At PrepInsta you will find the complete package for placement preparation. This includes aptitude, logical, verbal, programming as well as interview preparation materials. Some of the highlights of PrepInsta include:-

- Interview Experience
- Top 100 Codes
- Top 100 Puzzles
- Interview Preparation
- Top 60 HR Interview Page
- All Companies preparation dashboard

2. GeeksForGeeks

GeeksForGeeks is one of the oldest and reputed website for placement preparation. You can visit this website, to prepare for your coding rounds. They have one of the largest database of coding materials in the form of articles and quizzes. They have diverse range of questions from easy to tough.

3. IndiaBIX

IndiaBIX is a popular website among students. It has extremely helpful content for aptitude preparation. Students preparing for government entrance exams will find relevant content on IndiaBIX. IndiaBIX has sections on General Aptitude, Verbal and Logical Reasoning, Current Affairs, General Knowledge, Puzzles, etc.

4. HackerRank

HackerRank is an online coding platform. Here, you can learn to code and solve challenges to increase your skills. They also have many hackathons that you can participate in. Many software companies hire students from HackerRank based on their performance on the platform. On HackerRank's jobs page, you will find many coding tests posted by various companies that are hiring.

5. Codeforces

Codeforces is one of the oldest competitive coding platforms available. It offers daily challenges for programmers. This includes beginner and advanced level challenges.

6. Glassdoor

Glassdoor provides its users with reviews about companies. It is a great website for researching about companies and deciding which company to opt for. It also provides information about salary and benefits offered by different companies.

7. PrepInsta Prime

PrepInsta Prime offers 200+ courses under one subscription for placement preparation and upskilling. This includes courses on :-

- AI/ML
- Data Science
- Full Stack Web Dev
- Aptitude
- Interview Prep
- and more

8. LeetCode

LeetCode is another popular platform to practice coding questions. It has both paid and free materials to prepare from. Anyone looking to better themselves at coding should check out this site.

IMPORTANT EXAMS FOR PLACEMENTS

CoCubes

CoCubes is a popular employability assessment exam. Any engineering or MBA graduate can apply for this exam. Companies like Flipkart, and Amazon hire through this platform.

eLitmus

eLitmus or hiring potential test is an assessment test for engineering and MCA/ME students. Through this exam companies like Microsoft, HCL, and Intel hire.

AMCAT

AMCAT is an adaptive AI-based test. Anyone can apply for it. With a score 550-600 on AMCAT, one can get placed in Uber, Coca Cola and more.

**Mrs.T.Ruba,
AP/ECE**

FEEL THE JOURNEY

This is not a technical or boring related stuff. While I was thinking about my life and I have gone through many years. Sometimes I had some thought why people obsessed with success. People are lucky to follow their passion without hesitation. But while following their path they forgot to enjoy their journey. Going forward. Everyone was put their focus on success and feel the pressure and gone depressed.

After the Completion of education our goal is to success and earn but that's made by our society. We forget to know what's the essence of Learning. While I was studying school that stage was very childish for me.

But after I saw many friends struggle and but their mistake is to repeat the mistakes again. People had a thought Making mistakes is a sin. Mistakes happen that make them so special for me. Mistakes are errors in life but these are mother of all success we can't avoid our mother.

But after I saw many friends struggle and but their mistake is to repeat the mistakes again. People had a thought Making mistakes is a sin. Mistakes happen that make them so special for me. Mistakes are errors in life but these are mother of all success we can't avoid our mother.

Enjoy our every mission from the drawing board and make it easier. Make your process at smaller steps put your focus and get happiness. Something wrong will happen in your way ok that's fine. Keep our hopes high in yourself is the best motivation I have ever had Feel the journey live the journey cherish the journey.

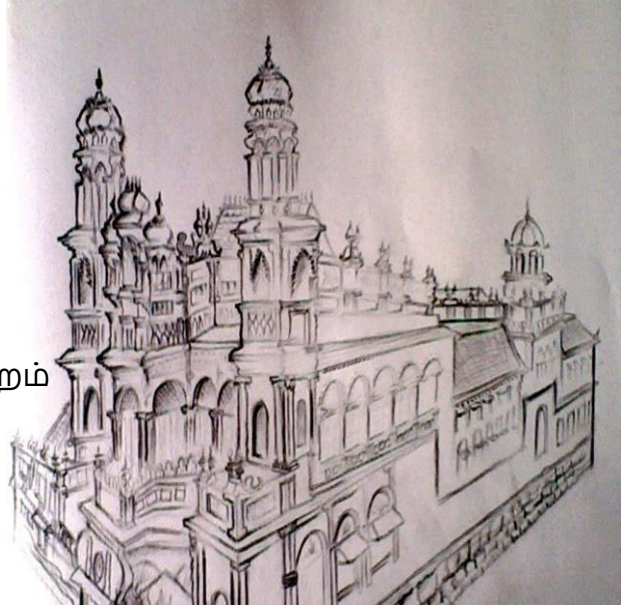
M Brammash
IV year ECE- A



POETRIES

இருவருக்கு ஒரு கிராமம்

பார்க்க பிரம்மாண்டம்
விண்ணுயர்ந்த குடைகள்
செட்டி வீட்டின் சாயல்
அழகான திண்ணைகள்
உயரமான படிகள்
விசாலமான வரவேற்பு
சற்றுப் பொறுத்து வரும்
மிகப்பெரிய செவ்வரை
தலைக்குனியனும் மூத்தோருக்கு
இடந்திரும்பனும் உணவுக்கு
வெள்ளி முளைத்திடும் முழு நிலா முற்றம்
ஆம் அரண்மனைதான்
என் அப்பத்தா வீடு
அரண்மனைக்கு ஓர் ஊர்
அவ்வூருக்கு இரண்டு ஆச்சிகள்...



என் தாத்தா வீடு

அழகான திண்ணையிலே
ஆழமான நினைவுகள்
இளந்தென்றல் பாட்டிசைக்கும்- பசு
ஈன்ற கன்றும் மடி சுவைக்கும்
உள்ளமெல்லாம் களித்திருக்கும்
ஊரெல்லாம் செழித்திருக்கும்
எல்லைச்சாமி எல்லாம் காக்கும்
ஏழைக்கு எப்போதும் உணவு இருக்கும்
ஒரு வீட்டில் நான்கு தலைமுறை
ஓடம் போல் உறவுக்கடலில்
ஒளவை கண்ட நல் இல்லம்
என் தாத்தாவின் அன்புள்ளம்...



க.சண்முகப்பிரியா
உதவிப் பேராசிரியர்/ECE

மனிதனின் மகத்துவம்

SENSOR உம் வந்தது எதை எதையோ வென்றது
மனிதனையே வென்றது, உடலையும் தின்றது
ஆனாலும் மனதை வென்றது
மதிப்பு கூட்டவோ ஆள் நிறைய வந்தாச்சு
இயற்கை எல்லாம் சேமிக்க போயாச்சு
ஆனால் அதிலும் தண்ணீர் பஞ்சம் வந்தாச்சு
கை நிறைய எடுத்தாலும் காசு ஏறி போயாச்சு
கண்கள் எல்லாம் குருடாகி நின்னாச்சு
தொட்டதெல்லாம் நோயாகி போயாச்சு
இனி தொட்டாலே நோய் வரும் காலம் வந்தாச்சு
உடம்பெல்லாம் அனுவாய் பொருந்தியாச்சு
உழைப்புக்கு உதியத்தை நிறுத்தியாச்சு
உசருக்கே உலை வைக்க போயாச்சு
இனி உறவென்று சொல்லி என்னாச்சு
வருடத்திற்கு ஒரு முறை பேரழிவு வந்தாச்சு
கண் திறக்க கலர் மையம் போட்டாச்சு
கலர் கலரா கயிறு எல்லாம் வந்தாச்சு
அதில் மனித நேயம் மட்டும் மன்னாச்சு
மருந்தெல்லாம் உணவாக வந்தாச்சு
மனிதரெல்லாம் மலிவு விலைக்கு நின்னாச்சு
கல்வி என்றோ கனவாகி போயாச்சு
கண்ணீர் விடவோ கல்லறைகளில் கலந்தாச்சு

C SANJAY

ECE – C IV YEAR

QUOTES ABOUT LIFE

வாழ்க்கையின் குரல்

உதிரும் இலைகள் கூட உன்னிடம் கதைகள் பேசும்
துளிரும் துகில்கள் கூட உன்னிடம் கவி பாடும்
எப்பொழுது நீ சோர்ந்து போய் மரத்தடியில் உக்கார்ந்தாலும்

தேவையில்லாத கேள்விகளுக்கு உன்

மௌனத்தினால் பதிலை சொல்!

எவ்வித சூழ்நிலை உன்னை சூழ்ந்தாலும் உன்

சிரிப்பால் அவர்களுக்கு பதில் சொல்!

மாற்றமும் இல்லை....

மகிழ்ச்சியும் இல்லை....

அவன் விதைத்த பாதையில் எனது

பயணத்தை புன்னகையுடன் பயணிக்கிறேன்

I'M NOT HERE TO FIT IN YOUR WORLD....

I'M HERE TO MAKE MY OWN BY MY PRESENCE....

LAILATH FATHRUL FATHIMA A

ECE, II - YEAR

மாதா

ஆற்றல் கொண்ட அன்னையே..

அக்கினி சிறகே...

சிகரத்தின் ஒளி விளக்கே

என்னை கருவிலே சுமந்தவளே...

உனக்கு ஈடு ஏதும் உண்டா இவ்வுலகில்.

பிதா

நீ என்னை கருப்பையில் சுமக்கவில்லை..

மாறாக நெஞ்சிலே நீ சுமந்தாய்..

நான் உன்னிடம் ஆசையாக அடம் பிடிக்கவில்லை...

ஆனால் என் ஆசையை நீ நிறைவேற்றினாய்..

பெற்றெடுத்த பிள்ளைகள் பெருமையாக வளர வேண்டும் என்று...

நீ கல் உடைத்த காலமெல்லாம் என் கண்ணிலே இருக்கிறதே...

மகனோ,மகளோ மனமுடைய கூடாது என்று., எந்த நாசியை

நீ உனது உடலை வருத்தி செய்து கொடுத்தாய்.

தகப்பனே நீ தன்னிலம் இல்லாதவன்.,

ஆனால் நீ கர்வம் கொண்டவன்.,

என் மகள் என் மகன் என்று தனித்து இயங்குபவன் நீ...

குருகுலம்

முன்பின் அறியாத என்னை உமது மகன் / மகளா ஆக்கி

வருங்காலத்தில் உச்சத்தை தொட வேண்டும் என்று

ஓயாத உழைக்கும் குருவே..

ஆண்டுகள் ஓடியும் வகுப்பறையும் கழிந்தும்

கடந்து சென்றாலும் காலங்கள் மாறுமோ...

எனது அறிவை வளமாக்கி உமது கரத்தோடு

என்னை ஏற்றுமடையும் செய்யும் உள்ளம் கொண்டவர்கள் //

மன சோர்வு காலத்திலே/ தைரியத்தையும் தன்னம்பிக்கையும்

ஊட்டி வளர்த்த ஆசிரியரே //

அரவணைப்பதில் அண்ணனாய்

உற்சாகப்படுத்துவதில் தங்கையாய்

உடலோடு உயிராக ஒருங்கிணைந்த உறவே குரு

தெய்வம்

கல்லிலேயே செதுக்கிய உன்னை // கரம் தொடுத்து வணங்கினேன்.

என்னிடம் உள்ள பயத்தை போக்க நான் உன்னிடம் வந்தேன்...

எனக்கு கல்வி அறிவை கொடு என்று நான் கேட்டேன்..

எனக்கு செல்வத்தை கொடு என்று நான் கேட்டேன்.

எனது குடும்பம் நல்லா இருக்க வேண்டும் என்று நான் கேட்டேன்...

எனது கண்ணீருக்கு விடை கொடு என்று நான் கேட்டேன்..

எனது வாழ்வுக்கு ஒரு ஒளிவிளக்கு ஏற்று என்று நான் கேட்டேன்.

இத்தனையும் கேட்டேன் உன்னிடம் ஆனால் எனது மனம் உருகி உன்னிடம்

பேசவில்லையே வருத்தம் என்மீதே...!!

க. முத்துக்குமார்

ECE, II – YEAR

அம்மா

நிறைவேறா ஆசைகளை தன் பிள்ளைக்காக நிறைவேற்றியவள்

பிள்ளையின் வெற்றியையே தன் லட்சியமாக கொண்டவள்

தம் கண்களை பார்த்து காயங்களை அறிபவள்

அவளது உறவு ஓர் உணர்வு, கடவுள்

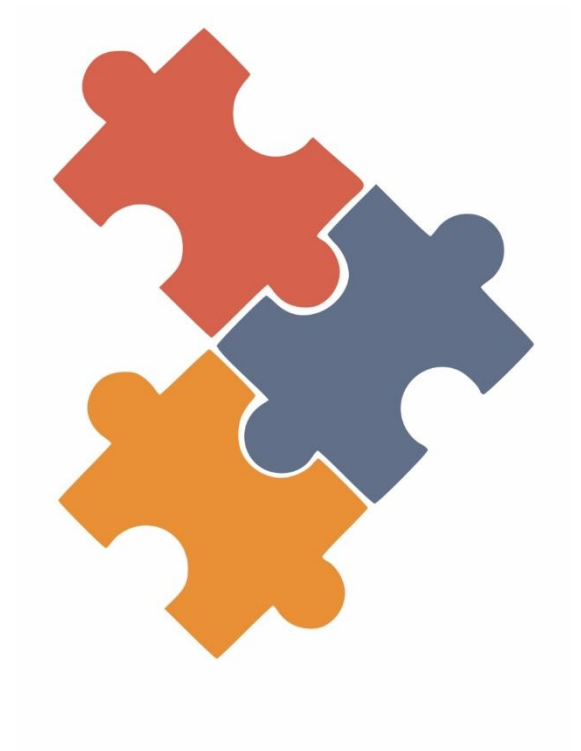
அந்த உணர்வுக்கு உயிர் கொடுத்து வைத்த பெயர்

“ அம்மா “

இரா. நிஸ்மா பானு

ECE, II YEAR

PUZZLE



	3	8	6				9	
		6						7
9	4			8	7			
	9			6	8			
4								5
			9	5			6	
			5	4			2	6
3						7		
	5				3	1	4	

7	3	8	6	2	1	5	9	4
2	1	6	4	9	5	8	3	7
9	4	5	3	8	7	6	1	2
5	9	2	1	6	8	4	7	3
4	6	1	7	3	2	9	8	5
8	7	3	9	5	4	2	6	1
1	8	7	5	4	9	3	2	6
3	2	4	8	1	6	7	5	9
6	5	9	2	7	3	1	4	8

Bhuvanesh Raja R
II Year, ECE-A

ELECTRONIC COMPONENTS

1)							— — .	
5)	9)				12)		6)	
4)				— — .		— — .		
	17)			13)				
14)		18)	— — .	— — .		— — .		
			— — .	— — .		— — .		
								11)
			— — .	10)				
					15)		— — .	
16)		— — .	7)					
3)		8)						2)

GUESS ME AND FILL ME

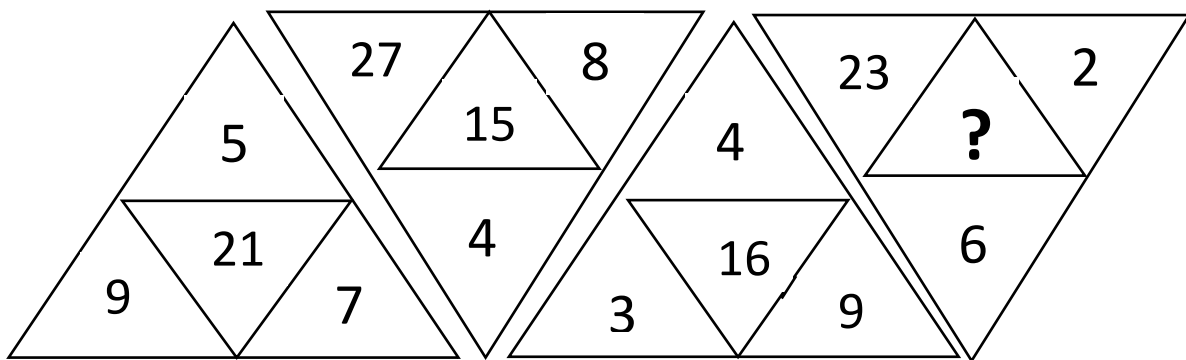
- 1) I am a gate which can perform opposite to OR gate. (left to right)
- 2) MISSING LETTER : T_A_S_I_S_O_ (Bottom to up).
- 3) I cannot store in any battery .who am I ? (left to right)
- 4) My full form is organic light emitting diode .write me in shortly (left to right)
- 5) I can opposes the flow of electrons.(left to right).
- 6) I used to determine the distance and velocity of the targets they hit.(up to down)
- 7) I can flow forward current only at the same time I can convert AC TO DC
- 8) Flow of electrons ? (left to right)
- 9) We are _____ and communication engineers (up to down)
- 10) I am one type of capacitor.
- 11)Semiconductor devices are made up of ? (last two letters rearranged).
- 12)I am three terminal semiconductor device.do you know me ? (up to down)
- 13) I am gate which can opposite to and gate ? (left to right).
- 14)I am small in size, inbuilt of large number of gates? (right to left)
- 15)Without rotate how can vehicle move forward? (right to left).
- 16)I can act as filter and stores electrical energy. (down to up)
- 17) I can used to find voltage in circuit theory
- 18) I can act as switch and only flow forward current.

ANSWERS FOR PUZZLE

- 1) NOR GATE 2) TRANSMISSION 3) AC 4) OLED 5) RESISTOR
6) RADAR 7) DIODE 8) CURRENT 9) ELECTRONIC 10) SHUNT
11) SILICON 12) TRANSISTOR 13) NAND 14) IC 15) TIRE
16) CAPACITOR 17) NODE 18) DIODE

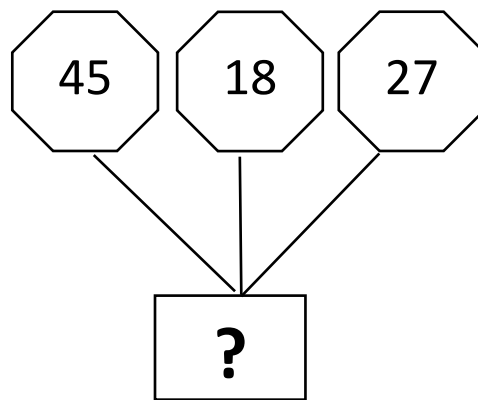
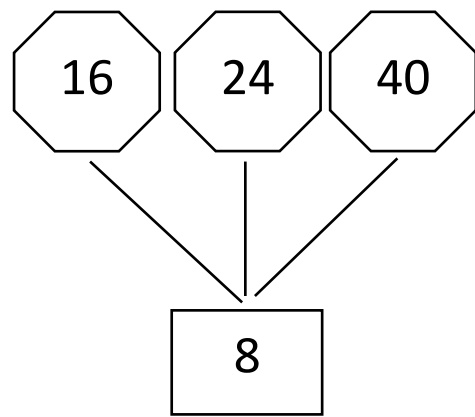
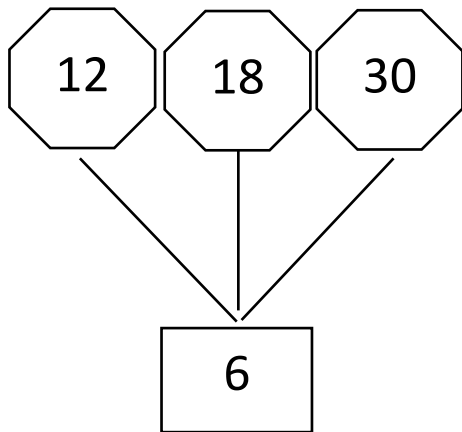
6	15	23
48	??	30
46	41	36

ANSWER 50

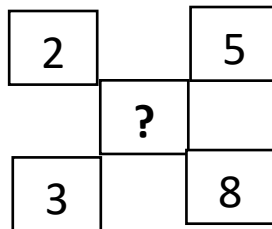
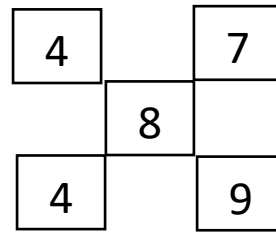
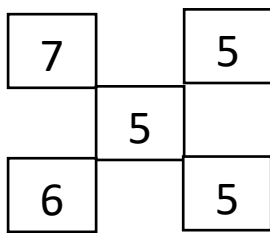


ANSWER 15

Anusiya
II Year, ECE-A



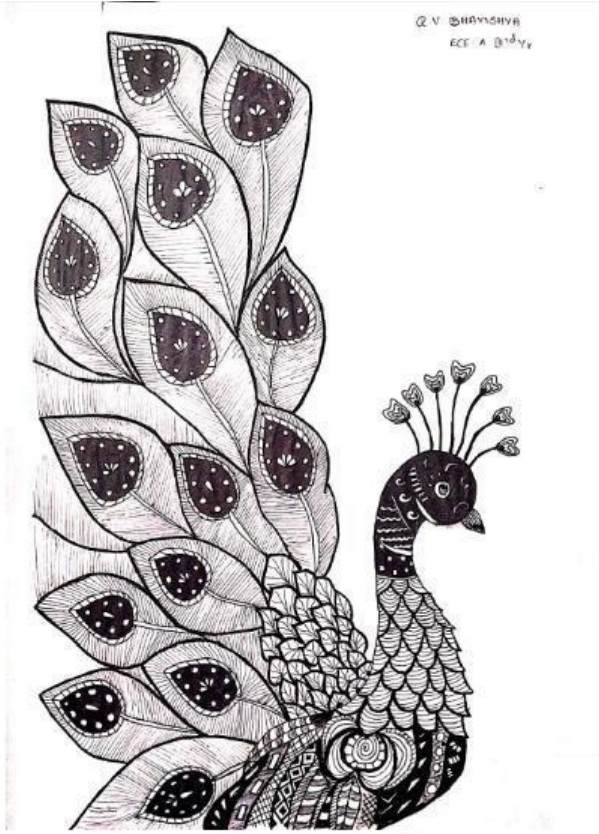
ANSWER: 9



ANSWER: 1

DEPICTIONS





R.V Bhavishiva, 3rd Year, ECE.



R.Roshina Sherin, 2nd Year, ECE.



S.Sahana, 2nd Year, ECE.



S.Sahana, 2nd Year, ECE.



M.Abinash, 3rd Year, ECE.



M.Abinash, 3rd Year, ECE.



M.Abinesh, 3rd Year, ECE.



M.Abinesh, 3rd Year, ECE.



S. Indhumathi
ECE - A
IInd Year

S.Indhumathi, 2nd Year, ECE.



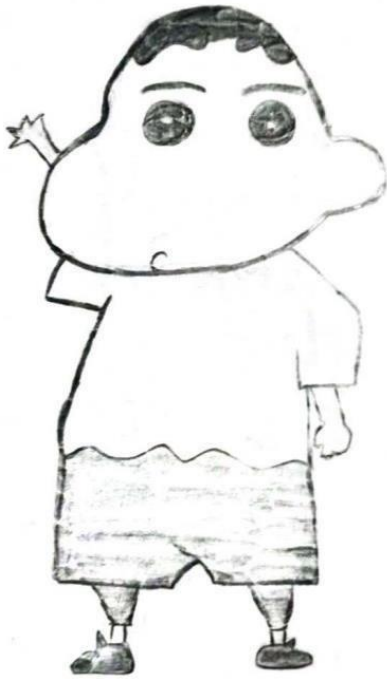
K.Rohini, 2nd Year, ECE.



K.Rohini, 2nd Year, ECE.



K.Rohini, 2nd Year, ECE.



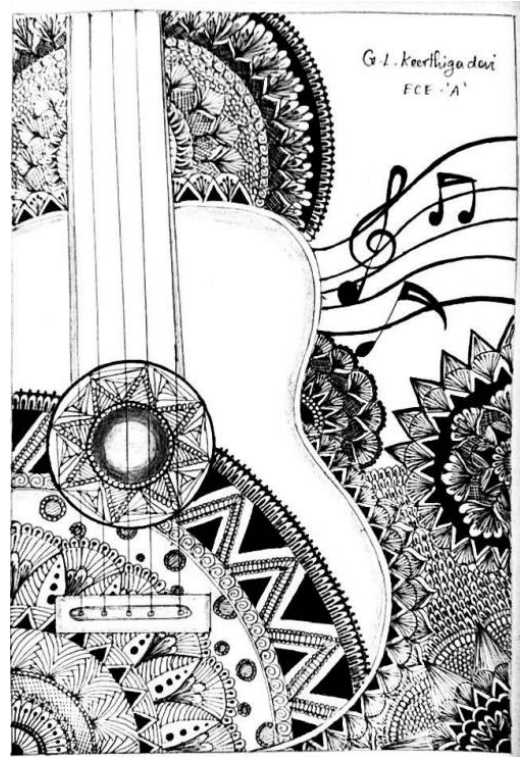
R.Sahana, 2nd Year, ECE,.



R.Sahana, 2nd Year, ECE.



J.D. Praveen Kumar, 2nd Year, ECE.



G.L Keerthiga Devi, 2nd Year, ECE



T. Ramya, 2nd Year. ECE.



PHOTOGRAPHY



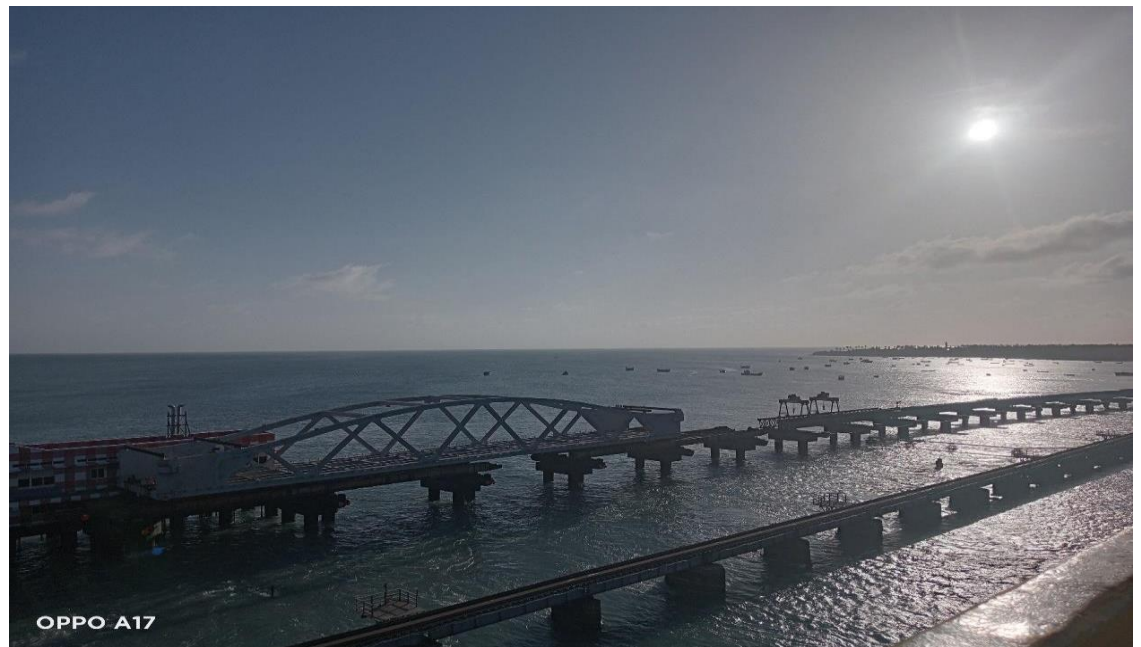
Nishma Banu.. R, 2ndi Year, ECE



Nishma Banu.. R, 2ndi Year, ECE



Nishma Banu. R, 2nd Year, ECE.



OPPO A17

Nishma Banu. R, 2nd Year, ECE.



S.Pradeepa, 2nd Year, ECE.



S.Pradeepa, 2nd Year, ECE.



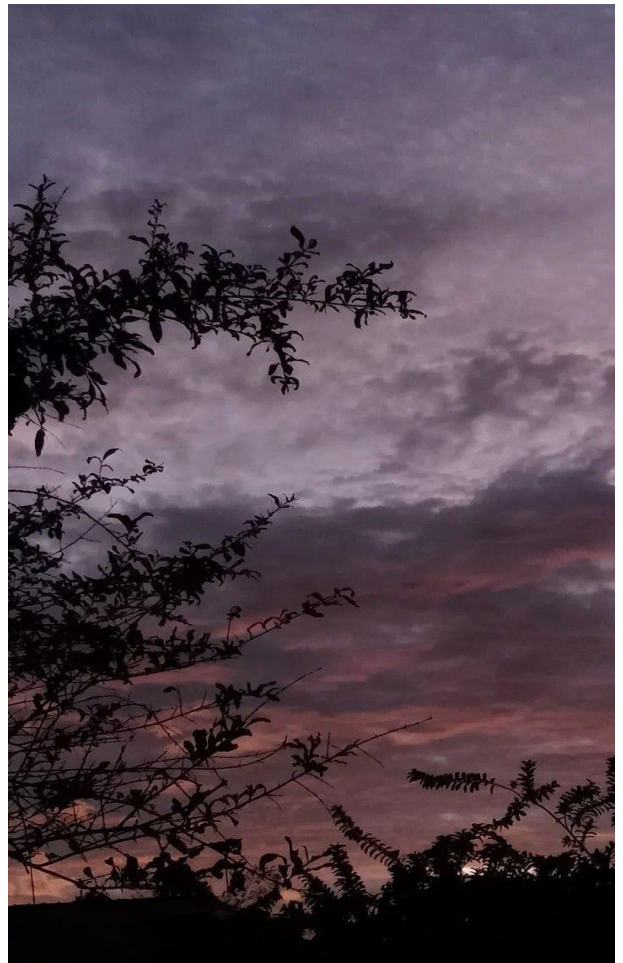
Joshva, 2nd Year, ECE.

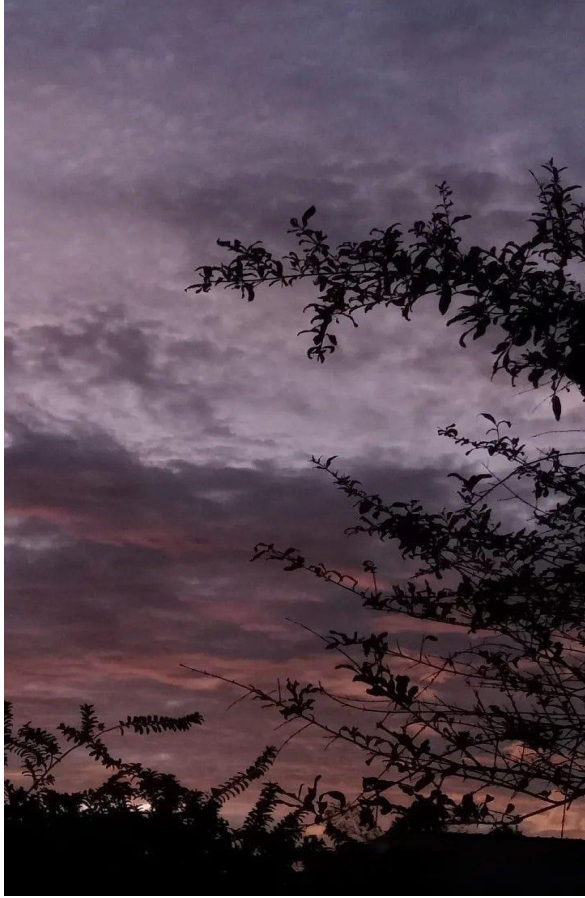


S.Pradeepa, 2nd Year, ECE.



D. Deepika, 2nd Year, ECE





D. Deepika, 2nd Year, ECE



M.Divya shree, 2nd Year, ECE



M.Divya shree, 2nd Year, ECE.



M.Divya shree, 2nd Year, ECE.



M.Divya Shree, 2nd Year, ECE.



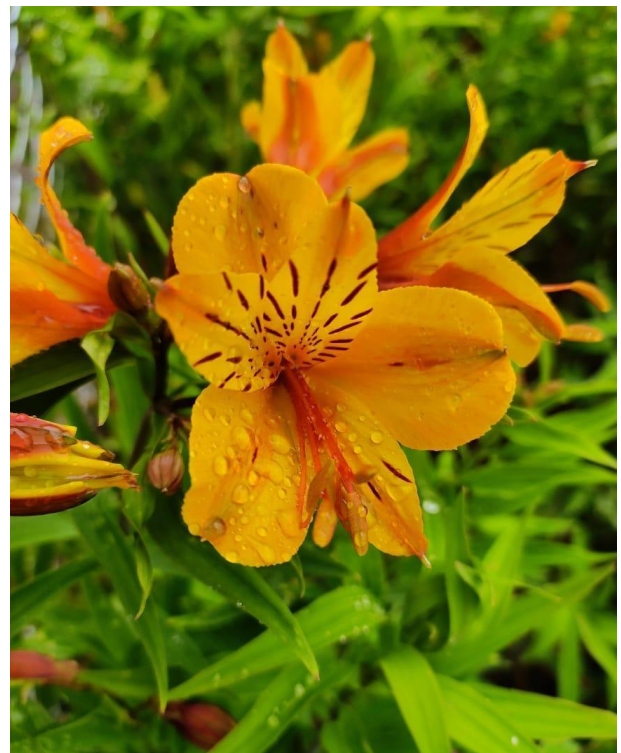
S.Mohamed Hussian, 2nd Year, ECE.



S.Mohamed Hussian, 2nd Year, ECE.

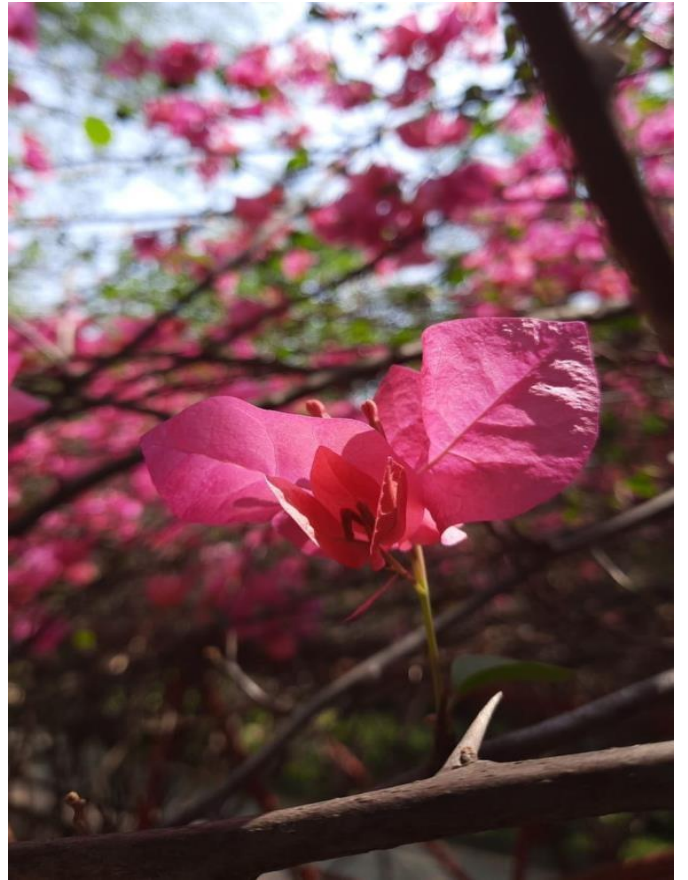


S.Mohamed Hussian, 2nd Year, ECE.





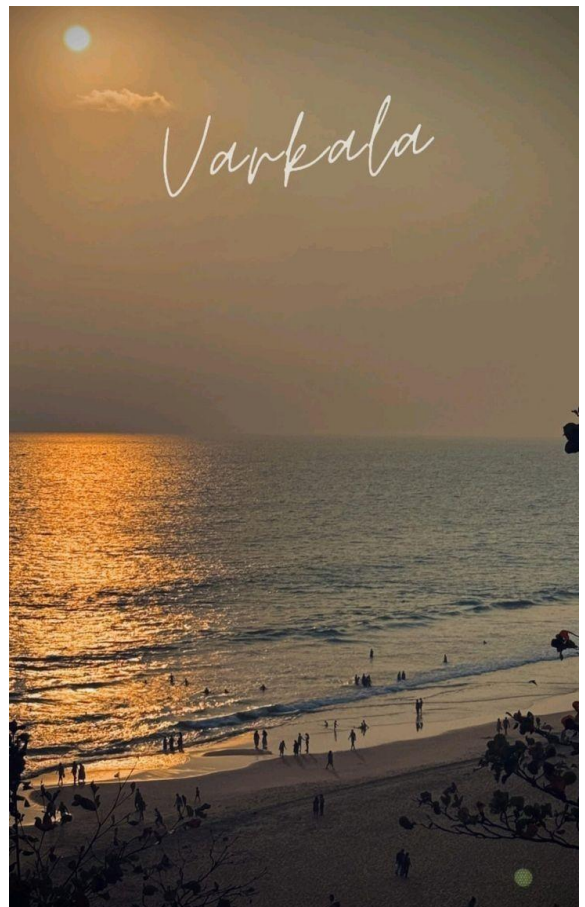
S.Sahana, 2nd Year, ECE



S.Sahana, 2nd Year, ECE.



Dr.M.Sheik Dawood, Prof/ECE



K.Mukesh, 2nd Year, ECE.



K.Mukesh, 2nd Year, ECE.



K.Mukesh, 2nd Year, ECE.

Thank
You!

The image features a black and white decorative border with ornate scrollwork in the corners. In the center, the words "Thank You!" are written in a cursive font, surrounded by a circular wreath of various leaves and flowers.



SOECE

Department of Electronics and Communication Engineering

ADROIT 2K'24