PRAGATHI

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

JULY 2023 MAGAZINE EDITION

EVENTS

PHOTOGRAPHY

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TECHNICAL WRITINGS

**SREEPATHY INSTITUTE OF MANAGEMENT AND TECHNOLOGY
VAVANOOR, PALAKKAD**

VISION

"Striving for excellence in generation and dissemination of knowledge."

MISSION

- To mould engineers of tomorrow, who are capable of addressing the problems of the nation and the world, by imparting technical education at par with international standards
- To instil a desire in students for research, innovation, invention and entrepreneurship
- To strive for creative partnership between the industry and the institute
- To impart the values of environment awareness, professional ethics, societal commitment, life skills and a desire for lifelong learning

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VISION

To create professionals in the domain of Computer Science and Engineering through quality education, innovation and entrepreneurial skills to foster sustainable development of the nation

MISSION

- To impart quality education in the Computer Science discipline in order to transform the students as computer and IT professionals fulfilling the needs of industry, government and academia.
- To develop qualities of technology incubation, entrepreneurship and research orientation among students.
- To support the sustainable development of society through continuous student centric activities and functioning of professional bodies.

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EVENTS

Awareness Session on Programming in SCRATCH

Resource person

The sessions were jointly conducted by Dr. Hema P Menon, Prof. & HoD, CSE and Mr. Syam Prasad G, Asst. Prof, ME.

About the session

During the sessions emphasis was given on the importance of need to understand and learn programming languages in current day scenario using suitable examples. The significance of improving and enhancing ones thinking capability and creativity was also stressed upon on. The sessions included fundamental programming concept using Scratch 3.0 Software. Simple games / interactive program developed in Scratch was demonstrated and explained. Selected students were then given an opportunity to try using the software. The session helped the students to understand the logic behind doing animations and numerical calculations in computer and the need for developing an algorithm / process before moving on with the coding.

INAUGURATION OF SIMAT CODING CLUB

About the speaker

- The club was inaugurated by Mr Bastin, CEO and co-founder of Linways.

- Amar Tumballi, cofounder at Dhiway is the mentor of coding club.

CODING CLUB INAUGURATION

INAUGURATION

MR. BASTIN THOMAS
FOUNDER & CEO LINWAYS

MENTOR

MR. AMAR THUMBALI
CO-FOUNDER DHIWAY

About the session

His speech was filled with affectionate words for the students where in he stressed that all students can succeed in coding with sufficient effort .
He has agreed to spare his time for posing hackathons for the students. In his video address he implored the students to get into the act of compltely solving an engineering problem.

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AN INSIGHT TO PROGRAMMING

About the speaker

- Mr. Ganesh.P ,Research scholar IIT Palakkad

- Mr. Jayanthan.K.S Former Assistant Professor

About the session

The first batch were handled by Mr.Ganesh. Majority of the students were from CSE branch. And others from EEE branch. So, Mr.Ganesh mainly talked about the algorithms ,and discreate mathematics. After the break the next session started at 11.30 AM. Then the students entered in to both the labs(compiler and programming lab) and provided them a game for developing the program logic.

The second batch was handled by Mr.Jayanthan.K.S. the students were from ME,CE,EC. The class was mainly about C programming. He explained some basic c programs also. The first session ended at 12.30 PM.

RESPONSIBLE AI WITH CHATGPT AS ITS USE CASE

About the speaker

Dr. V N KRISHNACHANDRAN{RETD.HEAD OF DEPT COMPUTER APPLICATION, VIDYA ACADEMY OF SCIENECE & TECHNOLOGY FORMER PRINCIPAL–GOVT.VICTORIA COLLEGE PALAKKAD FORMER PRINICIPAL,C KGF MEMORIAL GOVT.COLLEGE, KOZHIKODE]

About the session

The event was enthusiastically hosted by Ms. Twinkle (Event Coordinator). Ms. Aiswarya R delivered the welcome speech. Finally, after the inauguration ceremony, the Chief guest Dr. V N KRISHNACHANDRAN presided over an interactive session with the students giving us a brief talk on the topic "Responsible AI with ChatGPT as the use case".
The session by Dr. V N KRISHNACHANDRAN had a huge conceptual understanding of how artificial intelligence works by comparing it with real world application. Students are using ChatGPT to solve home works. Students are using ChatGPT as an author in one of their publications. He spoke of the pros and cons of the ChatGPT . He Proposed to handle ChatGPT as a tool.

MOTIVATIONAL QUOTES

YOUR ONLY LIMIT IS YOU

"Success is no accident. It is hardwork,perseverance,learning,studying,sacrifice and most of all, love awhat you are doing or learning to do."

~Edson Arantes do Nascimento

"If you think you are too small to make a difference, try sleeping with a mosquito"

~Dalai Lama

"Strength does not come from winning. Your struggles develop your strengths. When you go through hardships and decide not to surrender, that is strength."

~Mahatma Gandhi

TECHNICAL WRITINGS

Cloud Computing: Revolutionizing Data Management and Accessibility

-Abhinand Satheesh

Cloud computing is a transformative technological advancement that has revolutionized the way we manage, store, and access data and applications. It involves delivering computing services, including servers, storage, databases, networking, software, and analytics, over the internet (the cloud) to offer faster innovation, flexible resources, and cost savings.

One of the primary benefits of cloud computing is its scalability. Businesses can easily scale up or down their computing resources based on demand. This agility ensures that organizations do not need to invest heavily in physical infrastructure, providing a cost-effective solution. Moreover, cloud services are often offered on a pay-as-you-go model, allowing businesses to pay only for the resources they use. Accessibility is another key advantage of cloud computing. Users can access applications and data from anywhere with an internet connection. This flexibility fosters collaboration and allows for remote work, increasing productivity and efficiency in today's globally interconnected world.

Data security and reliability are paramount in cloud computing. Cloud service providers implement stringent security measures and redundancies to safeguard data against potential threats or failures. These measures include data encryption, regular backups, and disaster recovery plans, ensuring business continuity and peace of mind for users. Furthermore, cloud computing facilitates innovation and rapid deployment of new services and applications. Developers can utilize ready-to-use resources and services, reducing the time to develop and launch products. This accelerates the innovation cycle, fostering a dynamic and competitive digital landscape.

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Medical Coding: Precision & Efficiency in Healthcare Documentation

-Athul Krishna P.V.

Medical coding is a crucial process in the healthcare industry that involves translating medical diagnoses, procedures, treatments, and services into universally recognized alphanumeric codes. These codes, typically derived from medical records and documentation, are essential for billing, insurance claims, research, analysis, and ensuring compliance with regulatory requirements. The two primary coding systems widely utilized in medical coding are the International Classification of Diseases (ICD) and the Current Procedural Terminology (CPT) systems. ICD codes categorize diseases, injuries, and related health conditions, providing a standardized method for tracking and reporting ailments.

Trained medical coders, often certified professionals, meticulously review patient records and assign the appropriate codes based on the provided information. This ensures that healthcare providers receive accurate compensation for the services rendered and enables payers to process claims efficiently. Additionally, medical coding plays a vital role in healthcare analytics and research. Aggregated and anonymized coded data can be analyzed to identify trends, track disease prevalence, assess healthcare outcomes, and drive medical research and advancements. It aids in healthcare decision-making, resource allocation, and policy planning to improve overall healthcare delivery and public health.

As the healthcare industry continues to evolve, medical coding systems also undergo updates and revisions to reflect advancements in medicine, changes in procedures, and emerging diseases. Medical coders must stay updated with the latest coding guidelines and regulations to ensure compliance and accurate coding.

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Chat GPT: Conversational AI Redefining Interactions

-Naveen

Chat GPT, or Chat Generative Pre-trained Transformer, represents a remarkable advancement in conversational artificial intelligence (AI). Built upon the GPT architecture, Chat GPT is specifically designed to engage in human-like, contextually relevant conversations. It employs a deep learning model trained on a massive amount of text data, allowing it to generate coherent responses based on the input it receives.

The architecture of Chat GPT enables it to understand and generate text in a way that simulates natural human conversation. It leverages contextual information, previous interactions, and linguistic patterns to craft meaningful and contextually appropriate responses. The model is versatile and can be fine-tuned for specific domains or tasks, making it adaptable to a wide range of applications.

Chat GPT find use in customer service, virtual assistants, language translation, tutoring, and creative content generation. It offers a scalable solution for businesses seeking to automate and enhance their customer interactions.

However, it's important to note that while Chat GPT can produce highly convincing responses, it lacks true comprehension or consciousness. It generates responses based on statistical patterns and associations in the training data, and caution should be exercised to ensure the information it provides is accurate and reliable.

Its ability to understand and generate human-like text opens up exciting possibilities for enhancing various aspects of communication and customer engagement in the digital age. Continued research and advancements in this field will undoubtedly lead to even more sophisticated and capable conversational AI systems.

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Evolution Unleashed: The Unstoppable Progress in App Development

-Irfan Rahman,Mrudhul K.V.,Siddarth B,Vishnu K.

In the dynamic world of technology, app development has emerged as a continually evolving frontier, reshaping the way we interact with the digital realm. The progress witnessed in this field is nothing short of revolutionary, offering a glimpse into a future where innovation knows no bounds.

The advent of cross-platform development frameworks like React Native and Flutter has ushered in an era of enhanced accessibility. Developers now have the power to create applications that seamlessly run on both iOS and Android platforms, streamlining the development process.

Progressive Web Apps (PWAs) represent another remarkable advancement. These web-based applications offer a responsive, app-like experience directly through web browsers, eliminating the need for installations and providing a versatile user experience.

Artificial intelligence (AI) integration into app development is opening doors to unprecedented possibilities. From chatbots that provide real-time assistance to apps that learn user preferences, AI is enhancing personalization, efficiency, and overall user satisfaction.

In conclusion, the relentless progress in app development is a testament to human innovation and the boundless possibilities within our grasp. As developers continue to push the envelope, the future promises not only more sophisticated and efficient applications but a digital landscape where the fusion of technology and human experience reaches unprecedented heights. The journey of app development is a thrilling odyssey, where each step forward is a leap into a realm of limitless potential.

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Cybersecurity in Healthcare: Safeguarding the Digital Pulse of Wellness

-Sarath Krishnan pv and Nanda Krishnan

In the era of digital healthcare, where the flow of patient data is channeled through intricate networks and the stability of critical medical systems heavily relies on interconnected technologies, the paramount significance of cybersecurity cannot be emphasized enough. The evolution of the medical landscape into an increasingly digitized realm has brought the protection of sensitive patient information and the robustness of healthcare infrastructures against cyber threats to the forefront of industry concerns.

At the core of healthcare cybersecurity lies the implementation of robust data encryption protocols. This is essential as patient records, diagnoses, and treatment plans traverse networks, necessitating encryption to shield this information from unauthorized access. Ensuring patient privacy isn't merely an ethical consideration but also a legal obligation, with strict regulations governing the handling of sensitive medical data.

Healthcare organizations employ cutting-edge threat detection systems to swiftly identify and mitigate cyber threats in real time. Utilizing machine learning algorithms and artificial intelligence, these systems analyze network behaviors, promptly recognizing anomalies and potential security breaches before they escalate into major concerns.

As the healthcare industry evolves into an increasingly interconnected and digitized ecosystem, the protection of patient data and the resilience of medical systems rely on the proactive implementation of comprehensive cybersecurity measures. By safeguarding the digital pulse of wellness, the industry stands resilient against the dynamic and ever-changing landscape of cyber threats, thereby ensuring that the trust bestowed upon it by patients remains well-placed in the digital age.

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NON TECHNICAL WRITINGS

Balancing Academia and Passion: A Delicate Harmony

-Hema P Menon

Finding equilibrium between the structured demands of academia and the unbridled realms of personal passion is akin to orchestrating a delicate symphony. In the pursuit of knowledge within academic corridors, it's easy to overlook the vibrant landscape of individual interests that thrive outside textbooks.

Time, that elusive commodity, becomes the linchpin in this intricate balancing act. Scheduling becomes an art—a canvas where lectures, study sessions, and the pursuit of one's passions must harmonize. A well-structured routine allows for the coexistence of academic responsibilities and moments of unabashed enthusiasm.

Yet, the true alchemy lies in recognizing the symbiotic relationship between academia and passion. Each realm enriches the other. Academic pursuits provide a structured foundation, offering discipline and intellectual rigor. Meanwhile, personal passions inject vitality, creativity, and a distinct flavor to one's academic journey.

However, challenges emerge like shadows in sunlight. Burnout looms on the horizon, threatening to engulf both scholarly endeavors and personal pursuits. Striking the right balance requires not only efficient time management but also self-awareness—a keen understanding of when to immerse oneself in the intricacies of academia and when to let the heart follow its fervent desires.

Ultimately, the pursuit of knowledge should be a holistic endeavor. Academic achievements are commendable, but the tapestry of a fulfilling life is woven with threads of passion. Embracing both, in measured doses, leads not only to a well-rounded individual but also to a journey that transcends the mundane and becomes a symphony of personal and intellectual crescendos.

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Importance of Physical Health In Education

-Siddarth V.P.

Physical health is of paramount importance in the realm of education, as it forms the cornerstone of a student's overall well-being and capacity for learning. A sound physical foundation ensures that students are equipped with the vitality and stamina necessary to engage fully in educational activities. Regular exercise and a balanced diet not only foster physical fitness but also enhance cognitive functions, memory retention, and concentration. Moreover, a healthy body supports emotional stability, reducing stress and anxiety, and thus creating a more conducive environment for effective learning. In essence, physical health is not just a complement to education but an integral component, enabling students to maximize their potential and excel academically while setting the stage for a lifelong commitment to well-being.

Physical health and academics go hand in hand. Regular exercise and a healthy lifestyle enhance cognitive function, improve focus, and contribute to overall well-being, creating an optimal environment for academic success.

Prioritizing physical health in education is paramount for holistic development. Regular exercise not only boosts energy levels but also enhances cognitive abilities, improving concentration and memory retention. A healthy lifestyle positively impacts mood and reduces stress, creating a conducive environment for effective learning. Physical well-being is the cornerstone of academic success, fostering a balanced and resilient foundation for students to thrive in their educational pursuits.

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Art of learning – From a Student's Perspective

-Aiswarya R

Learning, through the eyes of a student, is an ever-evolving adventure. It involves not just absorbing information but actively engaging with it—asking questions, making connections, and exploring beyond the confines of textbooks. It's a journey of self-discovery, where each lesson, whether from success or failure, contributes to personal growth. A student's perspective on learning is dynamic, fueled by curiosity and the desire to understand the world. It's not merely a means to an end (grades), but a transformative process that shapes one's intellect, character, and outlook on life.

It's about embracing challenges as opportunities, understanding that mistakes are stepping stones to mastery. Students craft their learning through diverse experiences, finding connections between subjects and weaving a tapestry of knowledge. The canvas of education is painted with the strokes of passion and the palette of perseverance. It's not just about memorizing facts; it's about cultivating a mindset that values curiosity and sees learning as a lifelong masterpiece in the making.

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Eyes on Wellness: Fostering Eye Health in the Workplace

-Reshma P.

In the fast-paced world of modern workplaces where screens and demanding tasks dominate our daily routines, the well-being of our eyes is often relegated to the background. However, recognizing the critical role that eye health plays in overall productivity and quality of life, an awareness session on eye health at the workplace becomes not just informative but imperative.

One of the primary challenges addressed in this session is the Digital Strain Challenge. With our professional lives deeply intertwined with technology, prolonged screen time poses a significant risk to eye health. The awareness session sheds light on the importance of mitigating digital eye strain through proper ergonomics, regular breaks, and the 20-20-20 rule—reminding employees to look at something 20 feet away for 20 seconds every 20 minutes.

Blinking and lubrication are essential aspects that are often overlooked during extended screen use. The session emphasizes the importance of conscious blinking to lubricate the eyes, preventing dryness and discomfort. Practical tips on using artificial tears are also shared, ensuring that employees have the tools to maintain eye comfort.

In conclusion, the awareness session on eye health at the workplace serves as a beacon, illuminating the path to sustainable eye wellness. By empowering employees with knowledge and practical strategies, the workplace transforms into a haven where eyes not only meet the demands of the digital age but thrive with vitality and resilience.

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Disconnected Reflections: A Day Without Mobile from a Student's Perspective

- Abhinav Satheesh

In an age dominated by digital connectivity, the prospect of a day without a mobile device evokes a mix of curiosity and apprehension for students. This unplugged day unfolds as a compelling narrative, offering a unique glimpse into the challenges, revelations, and reflections that arise when the screens go dark.

Lunchtime becomes a communal experience. Without the distraction of screens, students savor the flavors and textures of their meals, engaging in meaningful discussions without the constant pull of virtual updates. Faces, once obscured by screens, now radiate genuine expressions and emotions.

As the day unfolds, a surprising revelation occurs—time seems to expand. Freed from the perpetual scrolling, students find themselves with moments to spare. Some rediscover forgotten hobbies, while others delve into introspection, contemplating the impact of perpetual connectivity on their lives.

As the day concludes, students gather to reflect on this digital detox. The overwhelming sentiment is one of liberation. Many express a newfound awareness of the balance needed between the digital and physical realms. The experience serves as a reminder that while technology enriches lives, there is a beauty in the simplicity of genuine human connection and unfiltered experiences.

In the end, a day without a mobile device is not just a respite from screens but a journey of self-discovery. It challenges students to reassess their relationship with technology, offering a fresh perspective on the importance of presence, genuine connections, and the uncharted territories of the offline world.

POEMS

<u>പൊതപ്പ്</u>

ഇന്നലെ വീട്ടിൽ ഒരു പുതപ്പു കച്ചവടക്കാൻ വന്നു
എന്നെ കണ്ടതും അയാൾ പുതപ്പിന്റെ ഗുണഗണങ്ങൾ
വർണ്ണിച്ചു കൊണ്ടിരുന്നു. ഞാൻ അയാൾടെ
കണ്ണിലേക്ക് സൂക്ഷിച്ചു നോക്കി . ഞാൻ ചോദിച്ചു
"വെശക്കുന്നുണ്ടോ ?"
ഭാഷ മനസ്സിലാവാഞ്ഞിട്ടോ എന്തോ അയാൾ ഒരു
അന്ധാളിപ്പോടെ എന്നെ നോക്കി. ഞാൻ ചോദിച്ചു
"വെശക്കുന്നുണ്ടോ ?"
അപ്പോൾ അയാൾ ദീനതയോടെ എന്റെ മുഖത്തേക്ക്
നോക്കി. ഞാൻ അടുക്കളയിൽ പോയി ഒരു
പാത്രത്തിൽ കുറച്ചു ചോറും കറികളും
വിളമ്പിക്കൊണ്ടുവന്നു.
അയാൾ അത് ആർത്തിയോടെ കഴിക്കുന്നത് നോക്കി
ഞാൻ ചോദിച്ചു .
"പൊതപ്പിന് എന്താ വെല?"

-Meera.K

കാലം എത്രമേ പോയാലും ഓർമ്മകളിൽ നിറഞ്ഞു
നിൽക്കുമെൻ   ബാല്യകാലം   എൻ   ഓർമയിൽ
വികൃതികൾ നിറഞ്ഞൊരൻ കാലം ആലോചിക്കവൻ
ഓടിയെത്തുമെൻ   മധുരമാം   ഓർമ്മകൾ   എൻ
ഉള്ളിൽ എവിടെയോ

-Vishunraj K.R.

In a classroom bright, two hearts entwined,
A boy, a girl, their love undefined.
Silent glances, secrets untold,
A story of love, yet to unfold.

He steals a glance, she looks away,
Innocent games their hearts play.
Unspoken words, a dance of the eyes,
In hidden worlds, their love lies.

Each day, they pass like ships in the hall,
Unaware of the other's sweet thrall.
He dreams of courage, she hopes for a sign,
To bridge the gap, to make them align.

The universe waits, holding its breath,
For them to break free from the chains of
stealth.
In tender moments, their hearts will confer,
A confession of love, a tale to confer.

For destiny weaves its tapestry grand,
Uniting two souls, hand in hand.
In the silence of love, they'll find their way,
To say those words they long to convey.
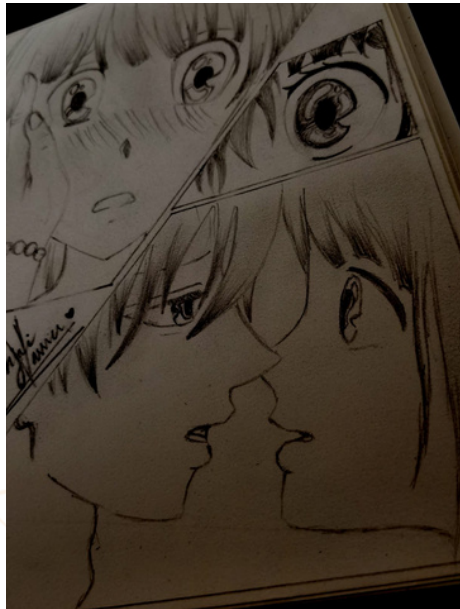
-Najma Yoosef

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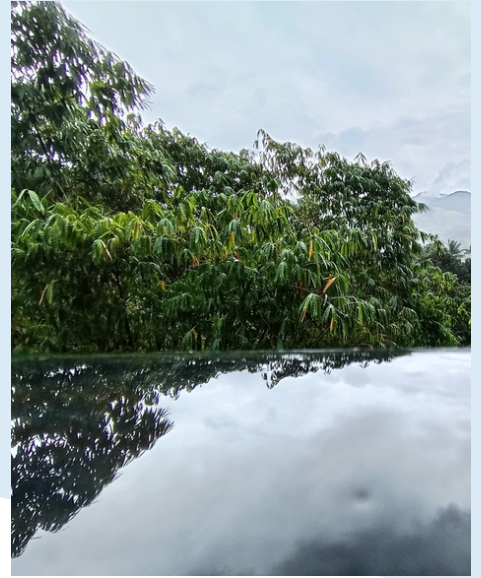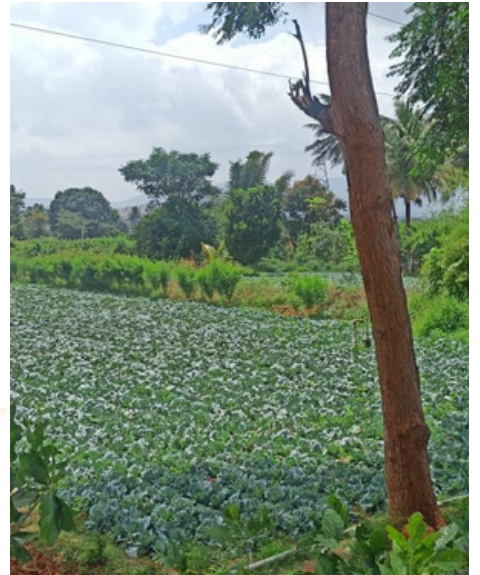ART WORKS
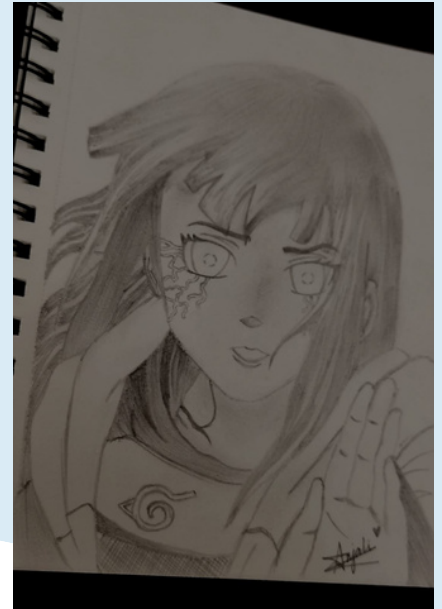
-Hema P Menon | HOD

-Anjali P.V.

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-Jyothis K.P.

-Karthika   P.N.

-Naveen

-Meera K.

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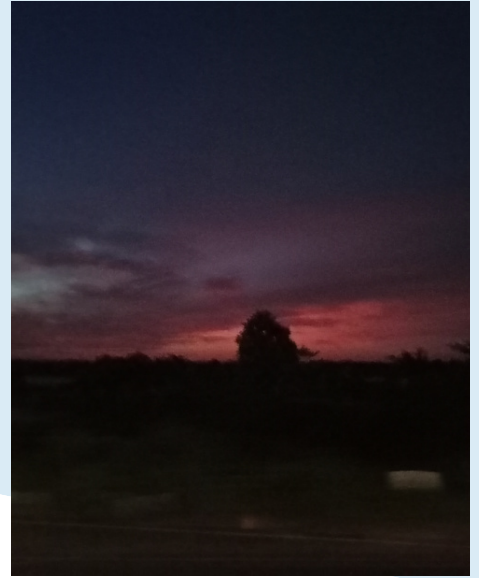
-Vishnuraj K.R.

-Nikhil A.P.

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