SREEPATHY INSTITUTE OF MANAGEMENT AND TECHNOLOGY

PRAGATHI

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

EVENTS
PHOTOGRAPHY
ARTWORK
TECHNICAL WRITINGS

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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.

CONTENTS

EVENTS

INAUGURAL CEREMONY-"CSE RESEARCH LAB"

About The Session

The student research lab was inaugurated on 16 th 14/02/2022 December 2021 by Dr. S P Subramanian, Principal, SIMAT. The motive behind setting up such a facility is for "Developing a technically competent community of researchers passionate about creating a sustainable and community oriented research program aimed at inculcating humanitarian concepts". The lab is fully WiFi enabled and currently has 2 high end systems. Provisions for students to use their laptops are also made available in the lab. It provides an environment wherein the students can meet together and have brain storming session, which is usually done during the open hour or lunch break.. Interested faculty / students across all branches / semesters are free to utilise this facility after enrolling themselves with the research group.

SMARTICUS

About The Session

The event, "SMARTICUS," was an exciting Fun Quiz centered around the topic of Movies & Web Series. It took place in the Auditorium, where 35 participants gathered to test their knowledge and compete for the coveted title. The quiz was conducted by the Quiz Master, Sreenath KV, with coordination support from Sreenath KV (S7 CSE), Vaishnav S (S5 CSE), Athul Krishna (S3 CSE), and Anjana Jinesh K (S3 CSE). The faculty presence was notable with Hema P Menon, Jyothis KP, Sreeshma K, Yadu P Dev, Susmitha, Divya, and Parvathy. In total, there were 15 questions, and the competition was fierce, but in the end, the winner of SMARTICUS was declared as Sharun from S3 CSE. The event was held from 3:00 PM to 4:00 PM and was a thrilling celebration of movie and web series knowledge.
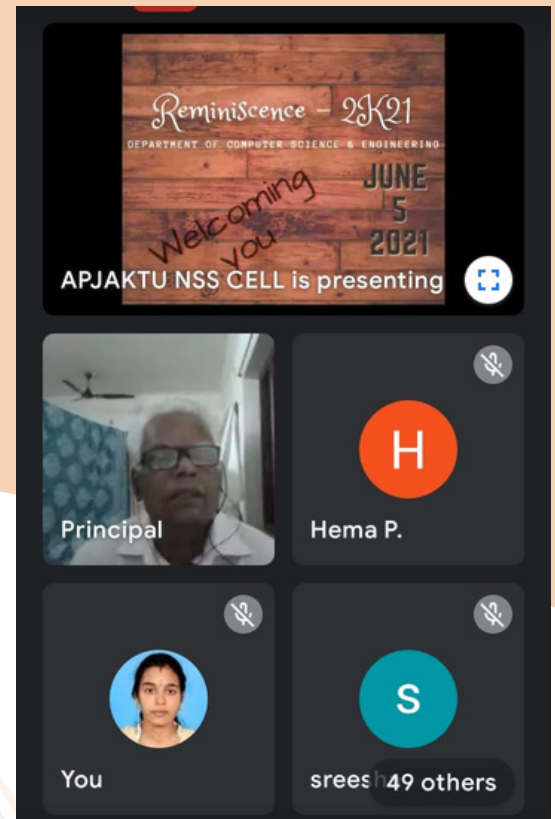
REMINISCENCE 2K21

About The Session

The event was attended by the alumni members from across all batches starting from year 2009 to 2016. The presence of the ex-faculty members of CSE added more color to the event. The event was attended by all staff members of CSE. The major motive behind organizing such an event was to recreate and revive the eternal relationship with the alumni and thus to maintain the strong bond with their home institution and department. Especially during such trying times when people are confined to their homes such a meet would help in rejuvenating oneself.

The platform paved way for alumni to interact with teaching and non-teaching faculty members of the department. Through the very friendly and interactive channel and environment provided through the virtual platform, many of the alumni members came forward with enthusiasm to share their personal and carrier status. Many of the alumni exhibited enough interests in enquiring the status of the classes and overall functioning of SIMAT and CSE department. Most of participants made enquiries regarding the well-being of faculty members who guided them during their academic period. Participants shared their experience with SIMAT and how the course and institution contributed to their personal and professional growth.

PHOTO GALLERY

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ACHIEVEMENTS

NAAC Peer Team visit report handed over to Sreepathy Institute

NAAC Peer Team members, Prof. (Dr) Vikas Dhawan, Pro –Vice Chancellor, Shree Guru Gobind Singh Tricentenary University, Gurugram, Prof. (Dr) Mohan S, Annamalai University, Tamil Nadu, and Prof. (Dr) Yadaiah Narri, Jawahar Lal Nehru Technological University, Hyderabad, handing over the NAAC Peer Team Visit Report to Principal, Dr S P Subramanian, Sreepathy Institute of Management and Technology, Vavanoor

QUOTES

-THE-
Harder
YOU
WORK
THE
Better
YOU
GET

"We cannot solve problems with the kind of thinking we employed when we came up with them."

~ Albert Einstein

"Stay away from those people who try to disparage your ambitions. Small minds will always do that, but great minds will give you a feeling that you can become great too."

~Mark Twain

"If you are working on something that you really care about, you don't have to be pushed. The vision pulls you."

~Steve Jobs

"Success is peace of mind, which is a direct result of self-satisfaction in knowing you made the effort to become the best of which you are capable."

~John Wooden

TECHNICAL WRITINGS

Augmented Reality in Education and Entertainment

-Abhijith

Augmented Reality (AR) has emerged as a captivating and innovative tool with far-reaching implications in both education and entertainment. In the realm of education, AR offers a dynamic and interactive learning experience that transcends traditional methods. By overlaying digital information onto the real world, AR enables students to engage with complex concepts in a tangible and immersive manner. From anatomy lessons that allow students to explore 3D models of the human body to historical reenactments that bring past events to life, AR enhances comprehension and retention by appealing to visual and kinesthetic learners. Its ability to bridge the gap between theoretical knowledge and practical application opens doors to new pedagogical approaches, fostering deeper understanding and engagement among students.

In the entertainment industry, AR introduces a new dimension of engagement and interactivity. With AR-enabled applications and devices, users can blend digital content seamlessly into their physical surroundings, creating captivating and personalized experiences. From interactive museum exhibits that transform static displays into dynamic narratives to location-based AR games that encourage users to explore their surroundings, AR redefines entertainment by breaking down the barriers between the virtual and real worlds. Moreover, AR offers unique opportunities for storytelling and immersion, allowing creators to craft narratives that unfold in real-time within the user's environment. As AR technology continues to evolve, its integration into education and entertainment promises to reshape how we learn, engage, and experience the world around us.

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Robotics

-Naveen T R

Robotics is the field of study and application that involves designing, constructing, operating, and programming robots. These robots are machines capable of carrying out tasks autonomously or semi-autonomously, often mimicking human actions or performing tasks in environments considered too hazardous or difficult for humans. Robotics encompasses a wide range of disciplines, including mechanical engineering, electrical engineering, computer science, and artificial intelligence. It finds applications in industries such as manufacturing, healthcare, agriculture, space exploration, and more. The goal of robotics is to create efficient and intelligent machines that can perform a variety of tasks, ultimately improving productivity and quality of life.

Over the years, robotics has seen remarkable advancements. Early industrial robots were primarily used for repetitive tasks on assembly lines. However, modern robots are becoming more versatile, capable of tasks like surgical procedures, exploration of challenging terrains, and even social interactions in service and entertainment settings. Additionally, the integration of machine learning and artificial intelligence has enabled robots to learn from their experiences and improve their performance over time.

As robotics continues to evolve, researchers and engineers are exploring areas like swarm robotics, soft robotics, bio-inspired designs, and human-robot interaction to push the boundaries of what robots can achieve. The field holds the promise of revolutionizing industries and everyday life by automating tasks, augmenting human abilities, and unlocking new possibilities for exploration and discovery.

Introduction to Cyber Security

-Sidarth P

Cyber security is the action of protecting computer systems and networks from hackers and malicious files which may result in data breaches, damage to software and hardware, and unauthorized information disclosure. This practice of defending computer networks and servers is done by cybersecurity professionals and enterprises in different roles.It's a Wide area covering several types of discipline. It can be divided into several pillars.

The 7 main pillars are :

Network security –

This pillar aims at performing actions to prevent unauthorized access to a network infrastructure or harmful files gaining access to confidential information.

Cloud Security –

It is the practice of protecting data and infrastructure hosted in cloud computing services. With the increasing demand for cloud services and servers, organizations should implement sound security measures to keep the data safe.

Mobile security –

It refers to practices taken to protect mobiles like phones,tabs, etc, from viruses and malicious attacks. Some key aspects are OS updates, app security, device protection, and antivirus, etc.

Endpoint security –

It includes the policies and measures taken to protect end-point systems like desktops, laptops, servers, and so on. Some key aspects include key management and data control etc.

IoT security –

As IOT-connected devices like wearable devices, home appliances, industrial sensors, and more are evolving day by day, IOT security deals with the security actions of devices connected with IOT and prevents unauthorized access to the devices.

Application security –

It focuses on securing Application platforms from threats and vulnerabilities. Some of the important aspects of application security include secure coding practices, data encryption, error handling and user input/output validation, etc

Zero trust security–

It is a security model which places no trust and asks for verification for every access request by the user. It aims at enhancing the security of the users and access controls.

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Renewable Energy

-Swaraj PS

Renewable energy has emerged as a promising solution to address the global energy challenge and combat climate change. Unlike fossil fuels, renewable energy sources, such as solar, wind, hydro, and geothermal power, harness natural elements to generate electricity without depleting finite resources or emitting harmful greenhouse gases. Solar energy, in particular, has seen significant advancements with the widespread adoption of photovoltaic panels, making it more accessible and efficient. Wind power has also gained momentum, with large wind farms popping up around the world to harness the immense power of the wind. Moreover, investments in renewable energy have not only contributed to a cleaner environment but have also created jobs and stimulated economic growth in many regions. As technology continues to improve and governments commit to transitioning to renewable sources, the future of energy generation looks promising and sustainable.

The integration of renewable energy into the power grid presents both opportunities and challenges for energy systems worldwide. One of the key challenges lies in the intermittent nature of renewable sources, such as solar and wind, which can be influenced by weather conditions. To address this, smart grid technologies and energy storage solutions, like batteries, are being developed to efficiently manage the fluctuations in energy supply and demand. Additionally, the transition to renewable energy requires substantial investments in infrastructure and grid upgrades. However, the long-term benefits in terms of reduced carbon emissions, energy security, and decreased reliance on imported fossil fuels outweigh the initial costs. Governments, businesses, and communities need to work collaboratively to facilitate the integration of renewable energy into the energy mix and create a more sustainable and resilient energy future for generations to come.

5G Technology

-Siddharth VP

5G technology is the fifth generation of wireless communication technology, succeeding 4G. It aims to provide faster data transmission, lower latency, and increased connectivity compared to its predecessors. Some key features of 5G include:

Speed: 5G promises significantly faster data speeds, capable of reaching up to 10 gigabits per second, enabling quicker downloads and seamless streaming experiences.

Low Latency: It offers lower latency, reducing the time it takes for data to travel between devices and networks. This improvement is crucial for real-time applications like augmented reality, virtual reality, and online gaming.

Increased Capacity: 5G can handle a massive number of connected devices simultaneously, which is essential for the growing Internet of Things (IoT) ecosystem.

Enhanced Connectivity: With 5G, users can expect more stable connections in crowded areas and better coverage in remote locations.

Network Slicing: 5G introduces network slicing, which allows operators to create multiple virtual networks within the same physical infrastructure. This enables tailored services with varying performance levels for specific use cases.

Overall, 5G technology aims to revolutionize industries like healthcare, transportation, communication, and entertainment by enabling innovative applications and services that rely on ultra-fast and reliable data connectivity

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NON-TECHNICAL WRITINGS

Feminism

-Anshidha Bhanu

Feminism is an important movement that empowers people and society as a whole, aiming to deconstruct traditional gender roles and promote equality between sexes. It is not just about women, but also for every sex, gender, caste, creed, and more. Feminism deconstructs gender roles, allowing people to live freely and empower lives without being tied down by traditional restrictions. It advocates for women's freedom to earn and for men to be able to express themselves freely.

The impact of feminism is significant, especially for women. It has given women the right to vote, which was achieved by women in the late nineteenth and early twentieth centuries. Modern feminism involves life-altering campaigns that support abortion of unwanted pregnancy and reproductive rights, allowing women to have freedom of choice. Feminism constantly questions patriarchy and strives to renounce gender roles, allowing men to be whoever they wish to be without getting judged. It also advocates for the rights of the LGBTQ community, giving a place for everyone and practicing intersectional feminism to understand everyone's struggle.

Feminism is not a gender-specific movement, but a combined movement that emphasizes the concept of equality between sexes without partiality. It strives to reconstruct societal stereotypes regarding gender supremacy and inferiority status, eradicating male dominance and female oppression. Traditional restrictions in society are broken down by feminism, and people who find inequality due to their gender are supported by feminism, regardless of their gender.

The impact of feminism can be seen in history, where women gathered together for their fundamental rights. The major success of the feminist movement was the right to vote for women, which was achieved through campaigns in the late nineteenth and early twentieth century. Feminism also opposes the stereotypes of men, which are meant to behave as perfect masculine figures. Feminism destroys the gender patriarchy and society-built norms for specific genders, and LGBTQ+ communities are recognized and included alongside all others.

In conclusion, feminism is a vital movement that empowers people and society as a whole, promoting equality and empowering all genders. Young people must become involved in the feminist movement to achieve successful results and contribute to a world full of equality.

Embarking on the Journey of Personal Development

-Anuprabha KP

Personal development, the pursuit of self- improvement and growth, is a transformative journey that every individual embarks upon at some point in life. It is a path that leads to discovering one's true potential, enhancing strengths, and addressing weaknesses. In this fast-paced and ever-changing world, personal development serves as an anchor, providing us with the tools and mindset needed to navigate through life's challenges successfully. Let's delve into the importance of personal development and explore some key aspects to consider along this enriching voyage.

The journey of personal development begins with self-awareness - an honest and introspective understanding of oneself. Taking the time to assess our strengths, weaknesses, values, and beliefs lays a solid foundation for growth. Self-awareness allows us to identify areas in which we can improve, set meaningful goals, and align our actions with our aspirations.

Once self-awareness is established, setting clear and achievable goals becomes paramount. Goals provide direction and purpose, motivating us to take consistent steps towards self-improvement. Whether it's acing academic performance, developing better communication skills, or cultivating a healthier lifestyle, setting measurable and realistic objectives helps us stay focused and committed to our personal growth

Personal development is not without its challenges. It often involves stepping out of our comfort zones and embracing change. It is during these moments of discomfort that we discover our true strength and resilience. Embracing change allows us to overcome fears, adapt to new situations, and learn valuable life lessons. Developing resilience enables us to bounce back from setbacks, view failures as opportunities for growth, and persevere despite obstacles.

One of the cornerstones of personal development is a thirst for knowledge and continuous learning. Whether through formal education, reading books, attending workshops, or seeking mentors, every learning experience contributes to our personal growth. Embracing a growth mindset fosters a willingness to explore new ideas, expand our horizons, and become lifelong learners.

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Classroom Management

-Sharun C

Classroom management is a key element to establish a successful learning environment in any classroom. An effective classroom management plan creates a positive learning environment. Classroom management is affected by the characteristics of the students and their behavior. Students' behavior is influenced by their age, academic abilities, goals, interests, and home backgrounds (Evertson, Emmer, and Worsham, 2006). Teachers need a diverse array of classroom management skills to facilitate learning. A classroom with a proper management plan will spend less time in disciplining and more time in learning. Students in effectively managed classrooms know and follow clearly defined rules and routines.

Frequent communication with families which includes positive information makes school wide discipline effective.Consistency is an important element in school wide discipline. Rules applied consistently through out the school are easy for students to learn. An effective teacher learns school rules and procedures before the year begins. This would be helpful for the teacher to set up her/his own classroom discipline plan.Teachers should have a discipline plan before the school year begins. Effective discipline plan includes various techniques to avoid, support, and correct inappropriate behavior in the classroom.Preventing misbehavior is widely preferable rather than dealing with it after it has occurred. A Preventive discipline plan involves steps taken in a classroom to avoid disciplinary problems. Potentially this discipline deals with the distractions in the classroom and how a classroom environment can be modified so it is more compatible with the learning needs of its children.Preventive discipline plan refers to the strategies that can be implemented to inhibit inappropriate behaviors from occurring in the first place.

Health & Wellness

-Devika O K

Health and wellness are closely related concepts that focus on achieving and maintaining a state of physical, mental, and emotional well-being. Health refers to the overall condition of an individual's body, including the absence of diseases or illnesses. On the other hand, wellness encompasses a broader perspective, emphasizing a balanced and fulfilling lifestyle that promotes optimal health.

Physical health: This refers to the well-being of your body, including factors such as nutrition, regular exercise, adequate rest, and avoiding harmful habits like smoking or excessive alcohol consumption.

Mental health: Mental well-being is crucial for a healthy life. It involves managing stress, emotions, and mental challenges through practices like mindfulness, therapy, or meditation.

Emotional health: Understanding and expressing emotions in a healthy way are essential for overall wellness. Building emotional resilience helps cope with life's ups and downs effectively.

Social health: Maintaining positive relationships and a strong support network contributes to mental and emotional well-being. Social interactions play a vital role in reducing feelings of isolation and loneliness.

Intellectual health: Stimulating your mind through continuous learning, problem-solving, and engaging in creative activities promotes intellectual wellness.

Environmental health: Being mindful of your surroundings and making conscious choices to protect the environment can positively impact your health and the health of others.

Striving for health and wellness involves adopting healthy habits, being proactive about preventive healthcare, seeking support when needed, and living a balanced life that integrates physical, mental, emotional, and social well-being. Remember that individual needs vary, so it's essential to personalize your approach to health and wellness to fit your unique circumstances and goals

TV & Movies

-Deepak E

Movies and TV shows are forms of visual entertainment that tell stories through moving images and sound. Movies are typically standalone productions, while TV shows consist of multiple episodes that make up a series. They both come in various genres, including action, comedy, drama, sci-fi, horror, and more, catering to different audience preferences.

Movies are usually longer, ranging from 90 minutes to over three hours, and are designed for theatrical release. They offer a complete narrative arc in a single sitting. In contrast, TV shows span multiple episodes, allowing for more in-depth character development and storytelling over a season or multiple seasons.

Movies often feature well-known actors, directors, and high production values. On the other hand, TV shows can have both well-known actors and newcomers, depending on the budget and popularity of the series.

Streaming services like Netflix, Hulu, Amazon Prime, and Disney+ have revolutionized the way we consume movies and TV shows, offering a wide range of content on-demand. These platforms have enabled viewers to binge-watch entire seasons or discover classic films at their convenience.

Overall, movies and TV shows are an integral part of our culture, providing entertainment, escapism, and often reflecting societal themes and values. They have become a significant aspect of our daily lives, offering a diverse array of stories and experiences for audiences around the world.

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POEMS

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കാട്ടുപൂക്കൾ...
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അടർന്നു വീഴുന്ന പൂക്കൾ!
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മണ്ണിന്റെ മണം നുകരാം
വെയിലിൽ വാടാതെ പുഞ്ചിരിക്കാം
ഒടുവിലീ അസ്തമയ സൂര്യന്റെ
ചായങ്ങളിൽ അലിഞ്ഞു ചേർന്ന് അടർന്നു വീഴാം...
ഓർമ്മയുടെ നിത്യതയിലേക്ക്,
ഇനിയും വിരിയാതെ അനന്തതയിലേക്ക്!..
...ജയശ്രീ എൻവെട്ടത്ത്

-Jaysree | Assistant Professor

ഇനിയുംവിടരാൻ..
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കാട്ടുപൂക്കൾ...
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ഓർമ്മയുടെനിത്യതയിലേക്ക്,
ഇനിയുംവിടരാത്ത അനന്തതയിലേക്ക്!.

-Jaysree | Assistant Professor

അവൾ

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കണ്ണിമ തെറ്റാതെ കാലടി പതറാതെ
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അവളുടെ ഓർമകൾ നെഞ്ചിലേറ്റി

-Vaishnav S

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ART WORKS

-Najma Yoosaf
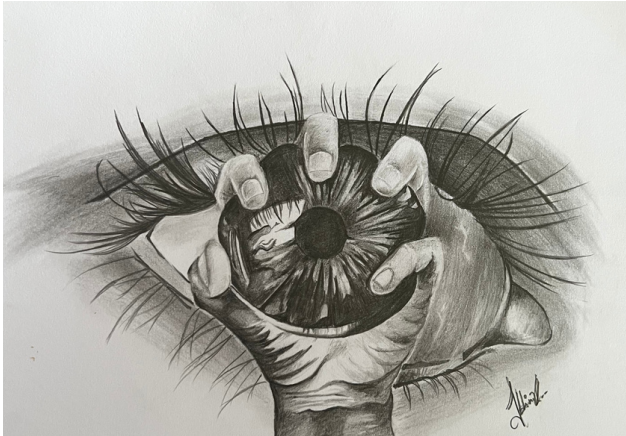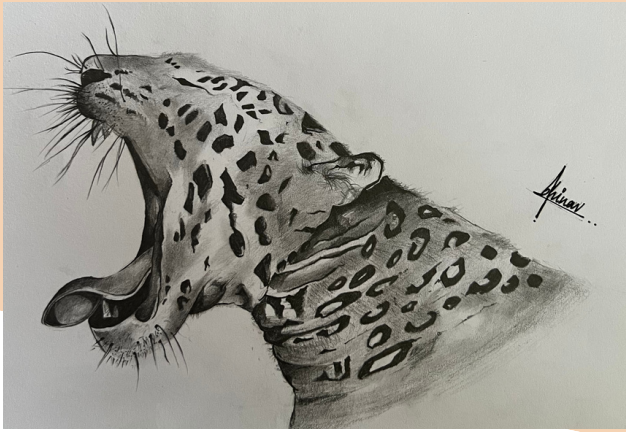
-Abhinav Satheesh

-Anuprabha KP

-Hareesh
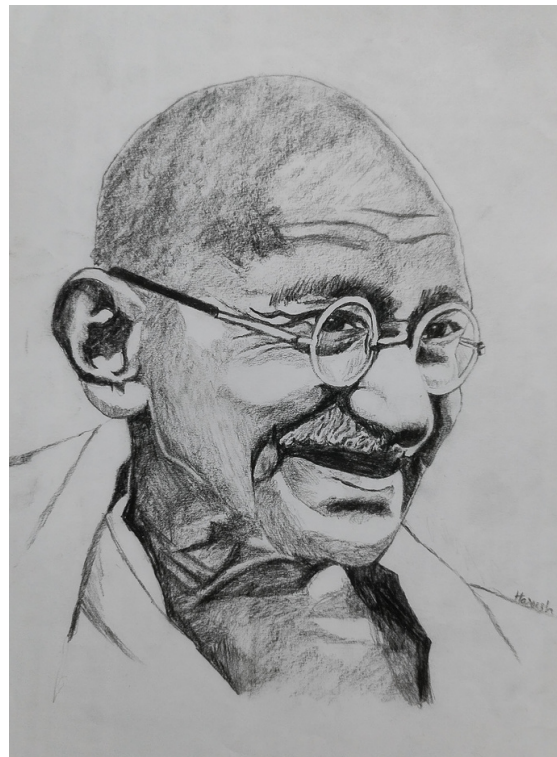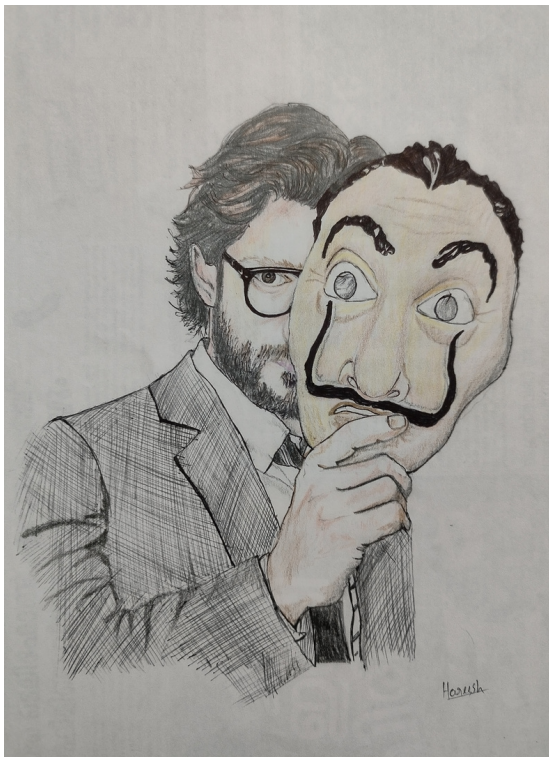
PRAGATHI

-Hema P Menon | HOD

-Hareesh

PRAGATHI

-Parvathi P

-Nikhil A P

PRAGATHI

-Sidarth B

-Sneha

PRAGATHI

-Vidya E S

-Muhammad fazil k

-Sharun C

PRAGATHI
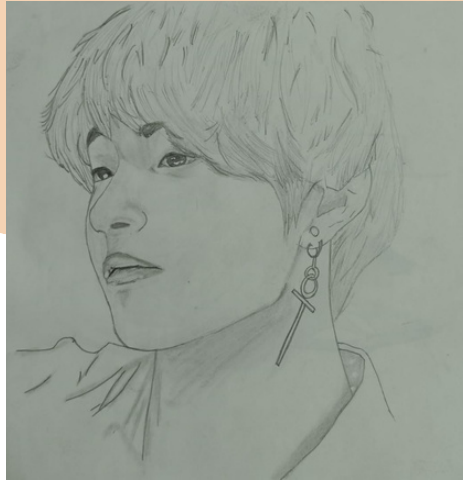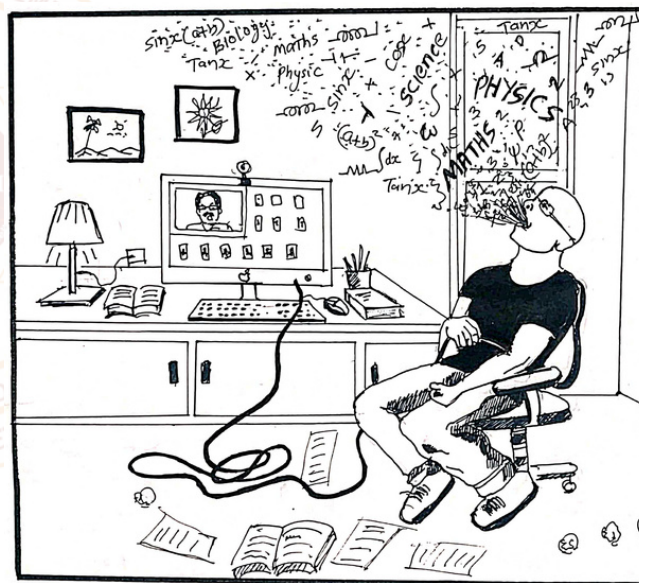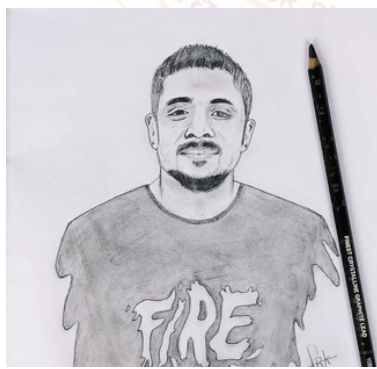
SPORTS

-Football match

PHOTOGRAPHY

-Mrudhul KV

-Jyothis KP | Assistant Professor

PRAGATHI

-Hema P Menon | HOD

PRAGATHI

GROUP PHOTOS

PRAGATHI
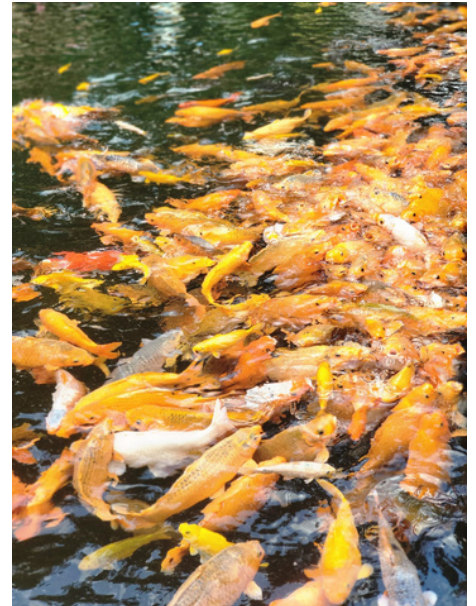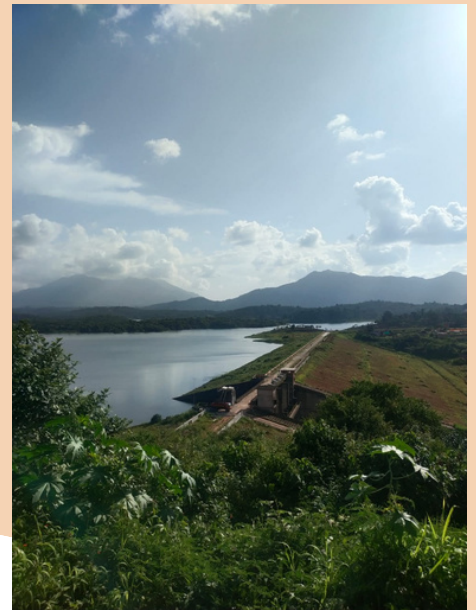
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