SREEPATHY INSTITUTE OF MANAGEMENT & TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING PRESENTS



SCIENCE + TECHNOLOGY + DESIGN + PASSION

JULLY 2021 EDITION

VIRTUAL REALITY WITH UNREAL ENGINE

DEEP EARNING



PHOTO GALLERY ARTWORK EVENT REPORTS

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SREEPATHY INSTITUTE OF MANAGEMENT AND TECHNOLOGY VAVANOOR, PALAKKAD

VISION

"Strive 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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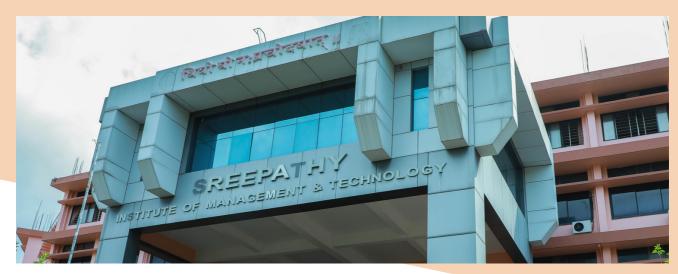
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PLACEMENTS 2021 Placed students list



Webinar Series – 'Unravelling Technologies of the Future ' "World's Powerful Currency"

About the speaker

The session was delivered by Mr. Avinash Krishnakumar, Cloud Architect, Center of Excellence Team, Oracle, Bangalore. Mr. Avinash is a Computer Science graduate from NSS Engineering College Palakkad and completed his MBA in Marketing & International Business from University of Applied Science, Germany.



About the session

The speaker started with and carried on a very interactive session. He emphasised on the importance of data in today's scenario. He also gave very useful tips and explained to students the different platforms where they can learn data science and get certified. The speaker assured of a glamorous career in the field of data science. He also talked about how various e-commerce and social media sites share user data and the effect of this data sharing on the user. Mr. Avinash also explained the usefulness of tools like Tableau, PowerBI and Oracle Analytics Cloud.

Webinar Series – 'Linking Passion with Academia' "Creating Opportunities"

About the speaker

Deputy Commandant, Indian Coast Guard and currently, the captain on GoAir (Airbus A320). Mr. Taresh cracked the SSB interviews and joined Indian Coast Guards as an Asst. Commandant in flying branch. He flew the Dornier 228 air craft and was mainly

involved in Search and rescue operations, troop carriage, flight testing, pollution response and Maritime Reconnaissance. He has received the prestigious director general coast guard commendation for bravery in line of duty. He is also a musician who plays piano, table and guitar and has delivered many performances at national and international venues.

A WEBINAR SERIES ORGANIZED BY CSE DEPARTMENT ASSOCIATION TOPIC: "CREATING OPPORTUNITIES" Mr. Taresh Ramesan Former Deputy Commandant Indian Coast Guard Captain, GoAir DATE: 28TH MAY 2021 TIME: 3 PM IST PLATFORM: GOOGLE MEET Register Here http://bit.ly/Clementia_3

LINKING PASSION WITH ACADEMIA

CE

REEPATHY INSTITUTE OF ANAGEMENT AND TECHNOLOG

About the session

The session was one of the most interactive talks ever hosted by the association. The speaker was very keen on involving participants in the meeting and answered all the queries in a very friendly way. He had shared his journey of life from a being a mechanical engineer to the captain of a leading airline in the country. He also said that he was a proud soldier of the nation, finding happiness and satisfaction in overcoming all struggles, and finally being on the winning side, be it during his days as a Commandant or while making his bird go up in the air and touch the ground safely. He also shared his thoughts on how to balance work with ones' hobbies and passion.

Webinar Series – 'Linking Passion with Academia' "Health and Fitness during Pandemic"

About the speaker

The session was delivered by Mr. Harikrishna P., HOD of the Physical Education department, Indian School Muscat, Oman. Mr. Harikrishna P has more than 25 yrs. of teaching experience as a Physical Education teacher. He is also an International cricket umpire at the ICC Development Panel since 2019 and has officiated one day internationals and T20 cricket matches. The speaker has also participated as a coach and an official in the CBSE National tournaments and athletic meets across India and abroad.



About the session

The speaker started with how the corona virus affects different parts of the human body and the way it targets the human respiratory system. He then emphasised the importance of maintaining cardiovascular fitness and muscle strengthening. There was also an activity for self evaluation of fitness. Finally, Mr. Harikrishna also presented various fitness routines one could follow.

Webinar Series – 'Linking Passion with Academia' "Balancing Academic Workload with Creative Passion"

About the speaker

The session was delivered by renowned dancer, educator and theatre artist Kalanilayam Gayathri Padmanabhan who also is a B.Tech graduate in Computer Science and Engineering and holds an M.Tech degree in Computer Vision and Image Processing and is currently pursuing her PhD in the field of Image Processing.

An Event organized by the association of CSE Department LINKING PASSION WITH ACADEMIA - A webinar on balancing academic workload with creative passion DATE : 14-05-2021,FRIDAY TIME : 3PM-4PM

TIME : 3PM-4PM PLATFORM : GOOGLE MEET

MANAGEMENT AND TECHNOLOGY

Contact: Abhijith P-8129541831 Clementia@simat.ac.in

About the session

The speaker Kalanilayam Gayathri Padmanabhan gave simple activities to the participants, which made the session even more interesting and very interactive. She crisply explained about the difference between Hobby and Passion and the different ways which a student can follow to balance them with their academic workload. The necessity of being passionate about one's passion and the current academic program was stressed upon. The speaker emphasised on certain key factors like Work Prioritization, Planning, Discrimination, Belief, Time management etc., which need to be addressed to in-order to maintain a balance and for a successful career.



Webinar Series – 'Unravelling Technologies of the Future ' "Beneficial AI for Humanity"

About the speaker

The session was delivered by, Dr. Sowmya V, Assistant Professor (Sr.Gr), CEN, AMRITA, Coimbatore. The field of interest is Artificial Intelligence for Health Care Analytics and Smart Agriculture Applications Using Drones, Processing, Image Analysis using Drones, Machine Learning, Bio-Medical Image Processing, Bio-Medical Signal Processing, Color Image Processing, Deep Learning, Hyperspectral Image, Pattern Classification



About the session

The session was highly informative as the speaker threw light on how AI is gradually taking over tedious and repetitive tasks, thereby saving human hours which can be invested in other innovations. Dr. Sowmya also guided the students by sharing the steps to become an AI engineer. Data Science, Machine learning and mathematics were some of the inevitable aspects of development in the field of Artificial Intelligence. She also shared details of platforms where students can pursue their career in AI. Projects developed by students in different parts of India were included as examples to eliminate the false notion that research and development in Artificial Intelligence were carried out only by developed countries and by big names in the industry. The speaker had also keen on answering queries by the students and other participants in the meeting.

SREEPATHY INSTITUTE OF

Webinar Series –"Hack happiness:optimize your life for a happier life"

About the speaker

The session was delivered by Mr. Rohith E, a sixth-semester student in the CSE department.

About the session

The webinar covered a variety of topics related to happiness and how individuals can optimize their lives to achieve greater levels of happiness. Mr. Rohith discussed the importance of identifying one's values and goals, as well as creating a daily routine that supports those values and goals. He also talked about the benefits of mindfulness and meditation, as well as the importance of practicing gratitude.

MANAGEMENT AND TECHNOLOGY

VIXANOOR, PALAKKAD

CENTRAL

The presentation was well-received by attendees, who found the information to be useful and actionable. Many participants shared their own tips and strategies for improving happiness and wellbeing, creating a lively discussion among the group. The webinar provided valuable insights and practical advice for anyone looking to live a happier, more fulfilling life.



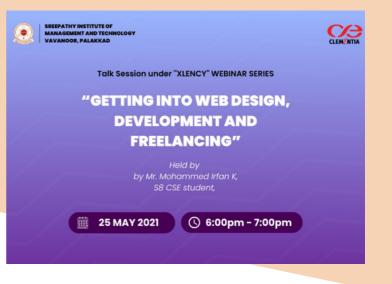
Webinar Series – "Getting Into Web Design, Development and Freelancing"

About the speaker

The session was delivered by Mr. Mohammed Irfan K, an S8 CSE student, who is an experienced web developer and freelancer, shared his expertise and experience with the participants.

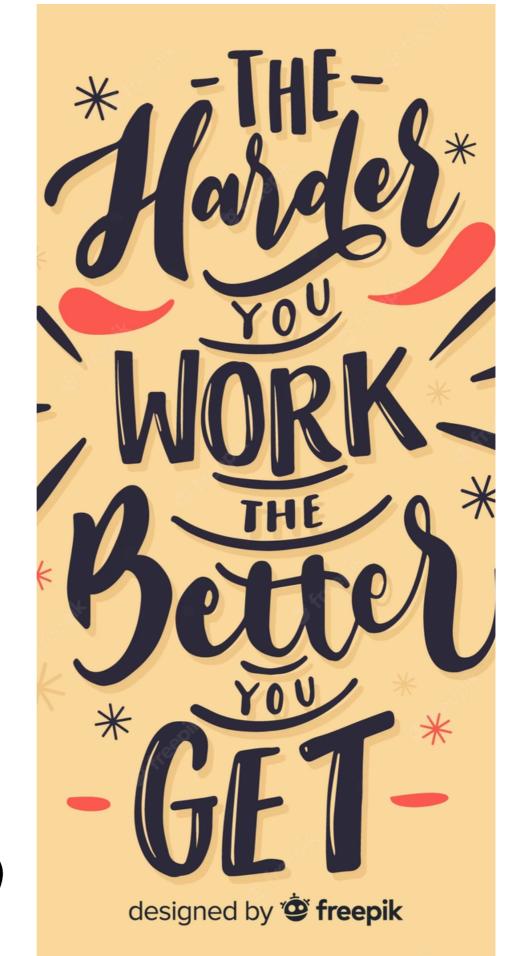
About the session

The speaker covered various topics related to web design, development, and freelancing, including the fundamentals of web development, web design principles, front-end development technologies, back-end development technologies, freelancing opportunities, and best practices for freelancing.



The webinar was expected to be beneficial for students who are interested in pursuing a career in web design, development, or freelancing. It provided them with insights into the industry and equip them with the skills and knowledge needed to succeed in the field. The webinar was interactive, and the participants have the opportunity to ask questions and clarify their doubts.





"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



IOT

-Naveen,CSE, Second year

IoT is the network of physical objects that are embedded with sensors, software, and other technologies to connect and exchange data with other devices and systems over the internet. IoT enables new ways of monitoring, controlling, and optimizing various aspects of human life, such as health, education, agriculture, transportation, energy, and security. IoT also creates new opportunities for innovation, business, and social impact. Some examples of IoT applications are smart homes, wearable devices, smart cities, smart farming, industrial IoT, and healthcare IoT.

IoT faces some challenges and risks that need to be addressed before it can reach its full potential. Some of these are data privacy and security, interoperability and standardization, scalability and reliability, ethical and social implications. Data privacy and security refers to the protection of personal and sensitive information that is collected and transmitted by IoT devices from unauthorized access or misuse.

Smart homes use IoT devices to automate and personalize various functions, such as lighting, heating, security, and entertainment. Wearable devices use IoT to track and improve health and fitness metrics, such as heart rate, blood pressure, sleep quality, and calories burned. Smart cities use IoT to improve urban planning, management, and sustainability, such as traffic flow, waste management, air quality, and public safety. Smart farming uses IoT to enhance agricultural productivity and efficiency, such as soil moisture, crop health, irrigation, and pest control. Industrial IoT uses IoT to optimize manufacturing processes and operations, such as quality control, inventory management, predictive maintenance, and energy consumption. Healthcare IoT uses IoT to improve patient care and outcomes, such as remote monitoring, diagnosis, treatment, and medication adherence.



Virtual Reality With Unreal Engine

-Naveen,CSE, Second year

Virtual reality (VR) is the technology that creates immersive and interactive simulations of real or imagined environments using computer-generated graphics, sounds, and motions. VR users wear head-mounted displays (HMDs) that track their head movements and display stereoscopic images that create a sense of depth and presence. VR users can also use controllers, gloves, or body suits to interact with the virtual world.

Unreal Engine is a powerful and versatile game engine that can be used to create high-quality VR experiences. Unreal Engine supports various VR platforms, such as Oculus Rift, HTC Vive, PlayStation VR, and Windows Mixed Reality. Unreal Engine provides a range of tools and features for VR development, such as blueprints, sequencer, VR editor, VR template, and VR plugins. Unreal Engine also enables realistic and dynamic lighting, shading, physics, audio, and animation for VR applications. Unreal Engine can be used to create various types of VR content, such as games, simulations, education, training, entertainment, and art.

Quantum Computing

-Anagha T M | CSE | Second year

Quantum computing is an emerging field of study that utilizes the principles of quantum mechanics to process and manipulate data. It is a specialized branch of computer science that focuses on the study of quantum systems and how they can be used to perform computational tasks. In classical computing, information is represented using bits, which can take on values of either 0 or 1. Classical computers process information using a series of binary operations, such as addition, subtraction, and logic gates. Quantum computing, on the other hand, uses quantum bits or qubits, which can exist in multiple states simultaneously due to the principles of quantum mechanics, such as superposition and entanglement. This unique property of qubits allows quantum computers to perform certain types of calculations exponentially faster than classical computers for certain problems.

A quantum computer is a device performing quantum computations. It manipulates the quantum states of qubits in a controlled way to perform algorithms. A universal quantum computer is defined as a machine that is able to adopt an arbitrary quantum state from an arbitrary input quantum state. Quantum computers use this principle to accurately compute the behavior of quantum systems or very small particles that follow the laws of quantum mechanics. It can also be used to run optimization algorithms very efficiently, execute machine learning algorithms or do pattern recognition much more efficiently than classical computers.

Introduction to Blockchain Technology

-Vidya E S | CSE | Second year

Blockchain technology is a groundbreaking and decentralized system that has transcended its origins in cryptocurrencies like Bitcoin, finding versatile applications in numerous industries. It functions as a digital ledger or database, securely recording and storing transactions or data across a network of computers, known as nodes. Notably, it operates without the need for a central authority, ensuring transparency, immutability, and integrity of the information it contains. Blockchain consists of a chain of blocks, each containing a list of transactions or data records. Once a block is added to the chain, its contents cannot be altered retroactively without modifying all subsequent blocks, making the data stored in the blockchain virtually immutable and highly secure.

This technology operates on a peer-to-peer network of computers, with each node maintaining a copy of the entire blockchain. When a new transaction occurs, it is grouped with other transactions into a block. Before the block is added to the chain, it undergoes a verification process by network participants, often referred to as miners (especially in the context of cryptocurrencies), who validate the transactions through complex mathematical computations, adding an extra layer of security.

Key features of blockchain technology include decentralization, immutability, transparency, security, and the capability to support smart contracts. Due to these features

As blockchain technology continues to evolve, its transformative impact on various industries is expected to grow exponentially, offering decentralized, transparent, and secure systems that hold promise for shaping the future of business processes and everyday life.

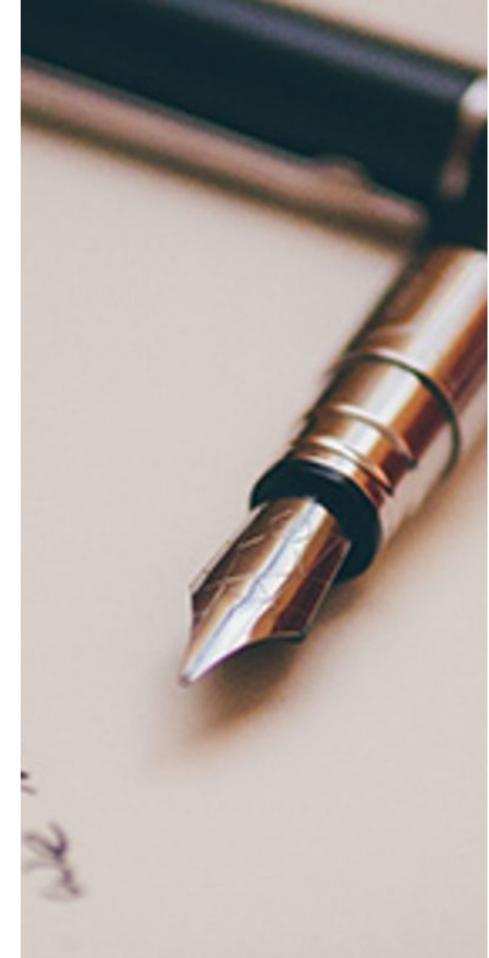
AI & ML

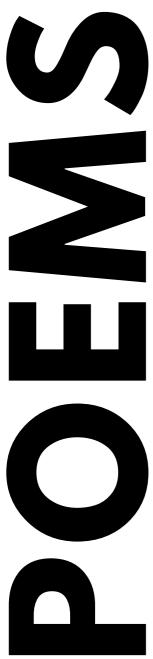
-Nikhil AP | CSE | Second year

Al is a broad discipline that focuses on creating intelligent agents capable of simulating human-like cognitive functions. These agents can perceive their environment, reason about the information they gather, and make decisions or take actions to achieve specific goals. Al encompasses various techniques, such as rule-based systems, expert systems, natural language processing, and computer vision, among others. The ultimate goal of Al is to build machines that can exhibit general intelligence and adapt to a wide range of tasks without explicit programming.

On the other hand, ML is a subset of AI that concentrates on enabling computers to learn from data and improve their performance over time without being explicitly programmed for each task. ML algorithms are designed to recognize patterns, make predictions, and discover insights from large datasets. There are various types of ML approaches, including supervised learning (where models are trained on labeled data), unsupervised learning (where models find patterns in unlabeled data), and reinforcement learning (where models learn from trial and error to maximize rewards in a particular environment).

Al and ML are closely interconnected because ML plays a crucial role in achieving Al's ultimate goal of building intelligent agents. ML techniques allow Al systems to learn from experience and data, making them more adaptive, accurate, and efficient in solving complex problems. As a result, the progress in ML has significantly contributed to the advancements in various Al applications, such as virtual assistants, autonomous vehicles, recommendation systems, and medical diagnosis tools, revolutionizing industries and transforming the way we interact with technology.





നീ നീയല്ലാതാകണം..

ഞാൻ ഞാനല്ലാതായതിൽ ചേരാൻ പഠിക്കണം. ഓർമ്മകൾ മെഴുതിരിയായി മാറണം. തിരികൾ ഉള്ളിൽ ചിതയായൊരുക്കണം. ആളണം കത്തണം കനലായെരിയണം. ചുടലയിൽ പുതു ജീവൻ മുളക്കണം. എരിഞ്ഞ കനലുകൾ കരിയായി മാറണം. പുതുചിന്തകൾ വരും വളമായി മാറണം. ഊറ്റുന്ന വള്ളികൾ പടരാതെ നോക്കണം. നിന്നെ മറക്കണം. ഞാൻ മരിക്കണം

-Arshad | CSE | Second year

ഇരുളിനോളം ആർക്കറിയാം..? ഹൃദയം പൊഴിച്ച നിന്റെ നൂറായിരം നിശാപൂക്കൾ.. എപ്പഴോ നേർത്ത് പോയ നിന്റെ

മാത്രം ഇമരോമങ്ങൾ<u>.</u> അന്ധകാരം പുണർന്ന് ശ്രവിച്ച് കൊണ്ടിരുന്ന നിന്റെയല്ലാത്ത

സൃഷ്ടികൾ..

പാതി അടഞ്ഞ നയനങ്ങൾ

നിന്നെ താളിയിട്ട ആഴങ്ങൾ... നിന്റെ മാത്രം ചിന്തകൾ... നിന്റെയലാത്ത ചിന്തകൾ..

ജീർണ്ണിച്ച ചിന്തകൾ.. ജീർണ്ണിക്കാൻ ആഗ്രഹിച്ച ചിന്തകൾ..

ഹൃദ്യമായ ഓർമ്മകൾ.. ഇരുളിനോളം അടുക്കാൻ ആരുമില്ല..

ഒടുവിൽ നീ കറുപ്പിനെയും പ്രണയിക്കും.

-Arshad | CSE | Second year

നല്ല മഴ "നനയുന്നില്ലേ.?" "എന്തിനു..? കാണുന്നുണ്ട് ഓരോ തുള്ളിയിലും.. ആരെയൊക്കെയോ... നീണ്ട ഒരു യാത്രയുടെ കവിത. മഴമേഘങ്ങളിൽ നിന്ന് മിഴികൾ ഉറങ്ങുമ്പോൾ... കാതോർക്കുമ്പോൾ... നോക്കൂ. മണ്ണിലലിയുന്ന നനവിന്റെ കവിത. സംഗീതം പോലെ... ശ്വാസം കൊണ്ട് ശ്രവിച്ച് മണ്ണിന്റെ ഗന്ധം... ചെളിപിടിച്ച സുഗന്ധം.."

-Arshad | CSE | Second year

അയാളെന്തേ എന്നെ വരക്കാൻ ശ്രമിച്ചു? എന്റെ മുഖമയാൾക്കറിയാം. ഭാവങ്ങളിലേക്കെത്തിയില്ല. ചിരി അയാൾ പകർത്തി. നിമിത്തം തിരക്കിയില്ല. നോട്ടമയാൾ എഴുതി. വികാരങ്ങളേന്തിപ്പിടിച്ചില്ല.

മിഴിനീരയാൾ തുടച്ചു. കരങ്ങൾക്ക് പൊള്ളലേറ്റില്ല. എന്റെ യുക്തി.. എന്റെ അന്തകരണം.. എന്റെ പുറംതോട് കളഞ്ഞ ആ ആ ചിത്രം തനിയേ മാഞ്ഞ് പോയി..

എന്റെ ആൾ. ഒരു വിചാരണ പോലുമുണ്ടായില്ല.

പുസ്തകം ഞാനെന്റെ സത്തോട് ചേർത്തു.

പുതിയൊരേടിൽ എന്റെ വലതുകയ് പതിഞ്ഞുട

-Arshad | CSE | Second year

She...

I saw her at the meadows Still as a chimney Looking upon the sky Holding few florets in hand.

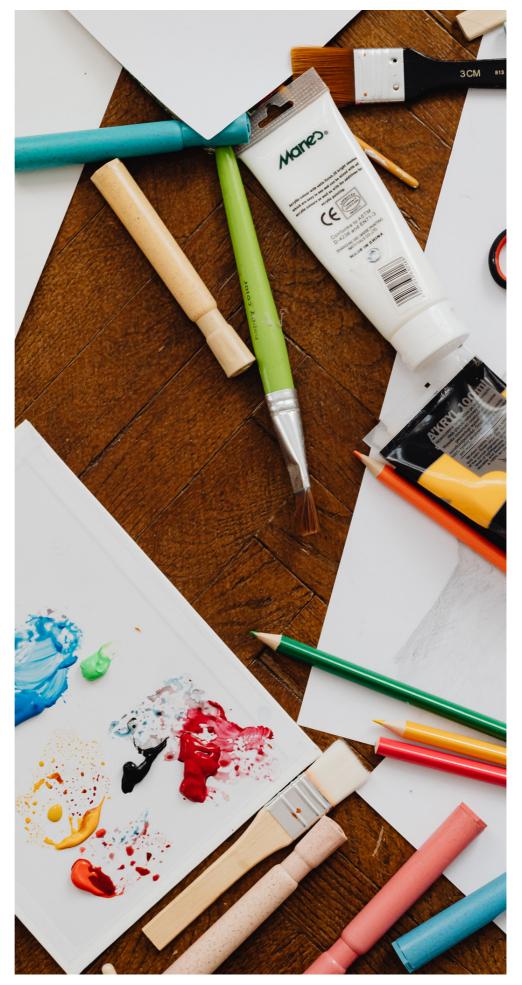
I Gazed at her and reached my hand Her elusive nature, tried, Till the sand beneath my feet scrunched.

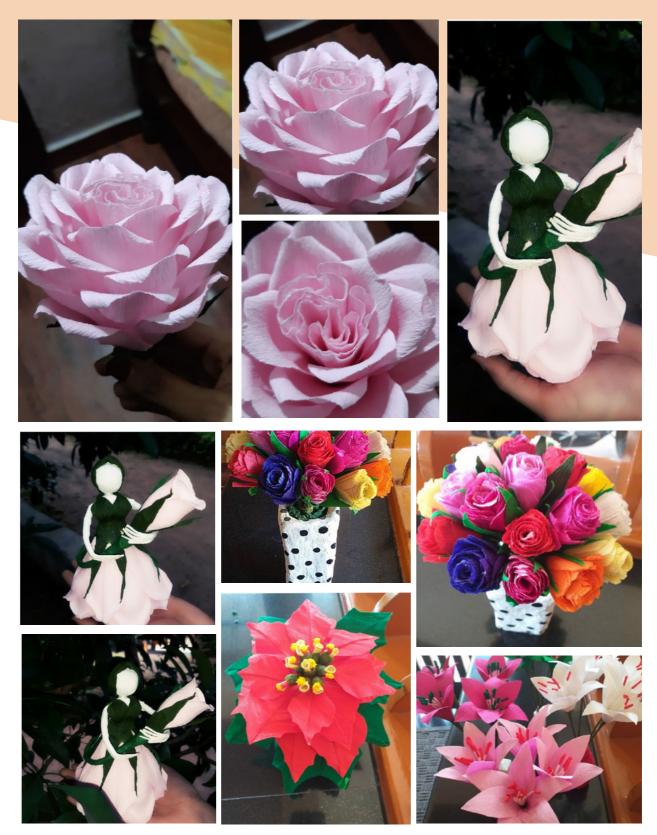
slipped as afore I tried and tried and

She gave me a look, that struck my heart. And my mind glided as so many coppes upon their webs.

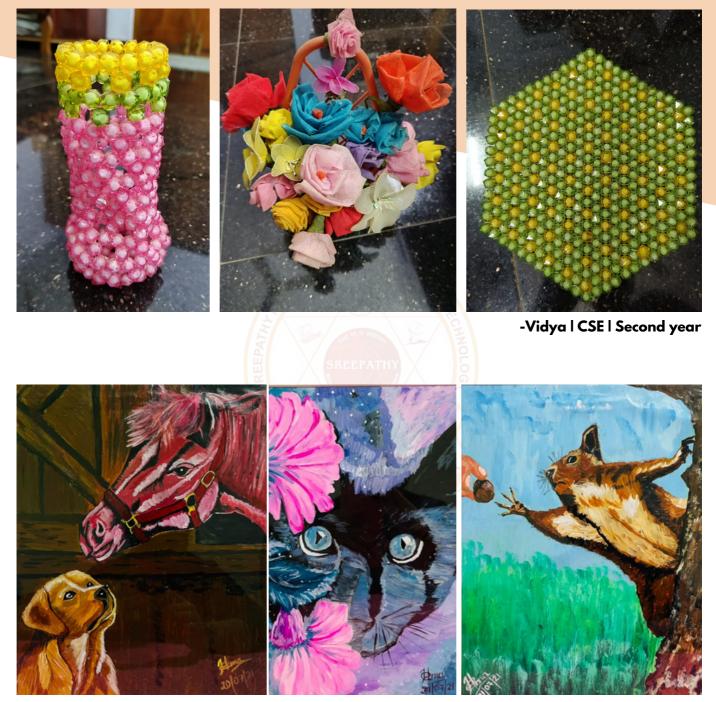
-Najma | CSE | Second year



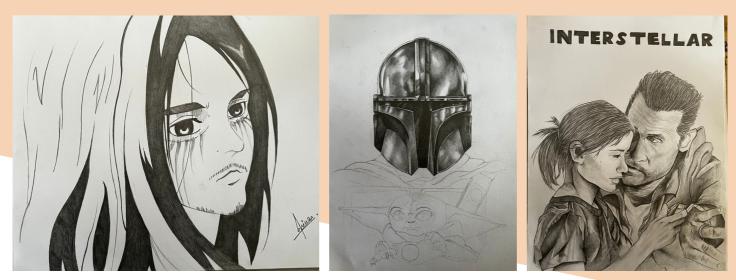




-Najma | CSE | Second year



-Hema P Menon | HOD | CSE



-Ahinav Satheesh | CSE | Second year

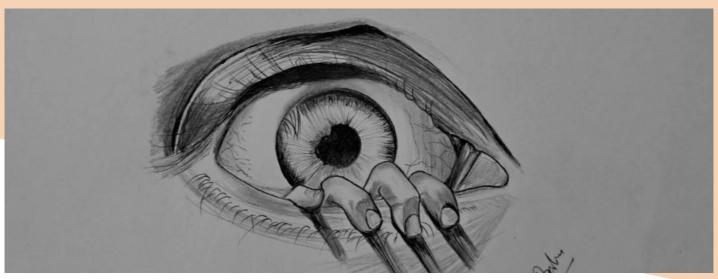


-Anuprabha | CSE | Second year



-Sidarth B | CSE | Second year

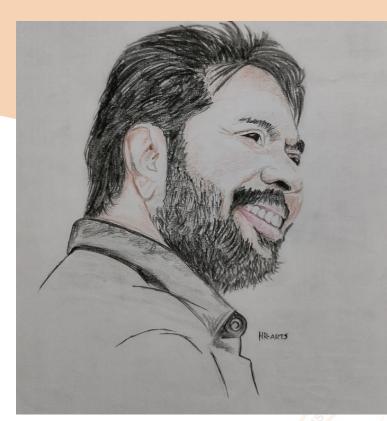


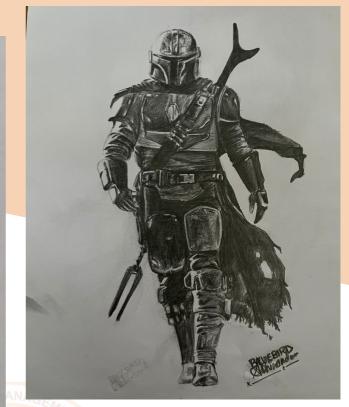


-Sidarth B | CSE | Second year

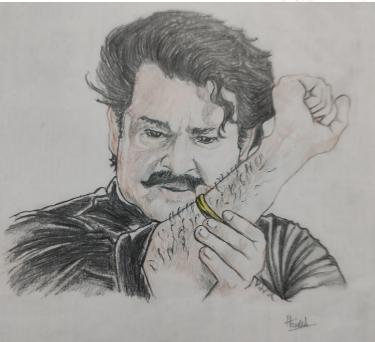


-Sneha | CSE | Third year





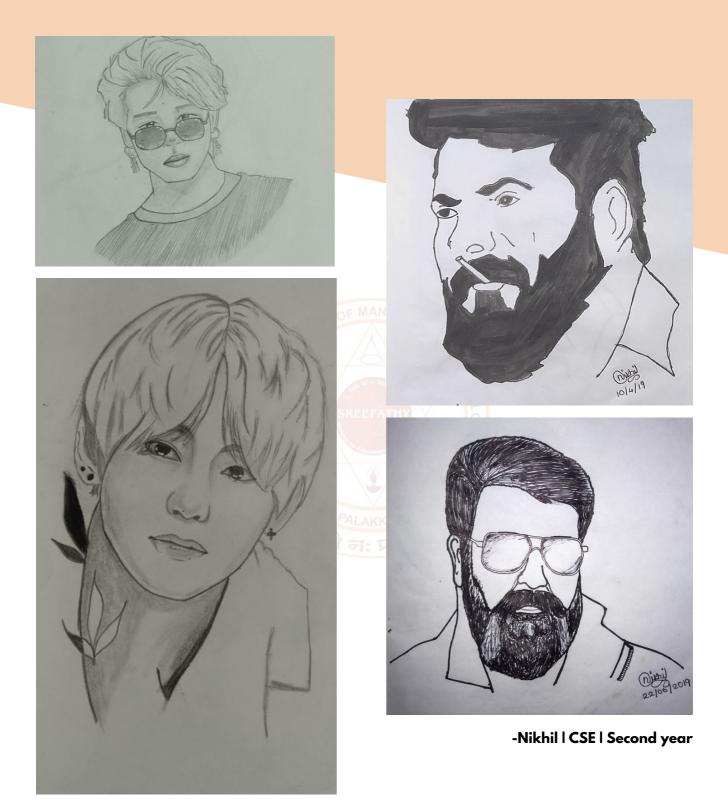
-Abhinand Satheesh | CSE | Second year



-Hareesh | CSE | Third year



-Sneha | CSE | Third year



-Vidya | CSE | Second year



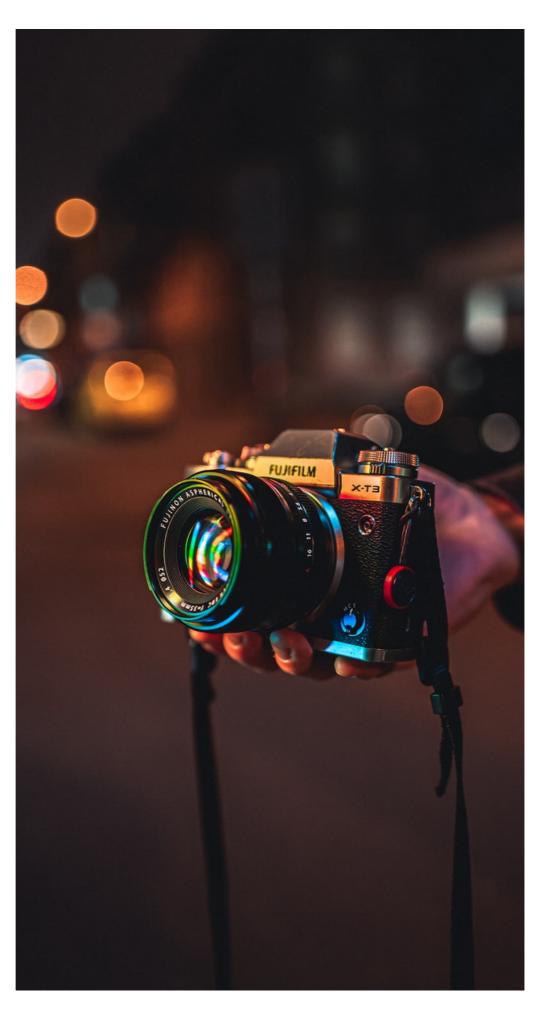


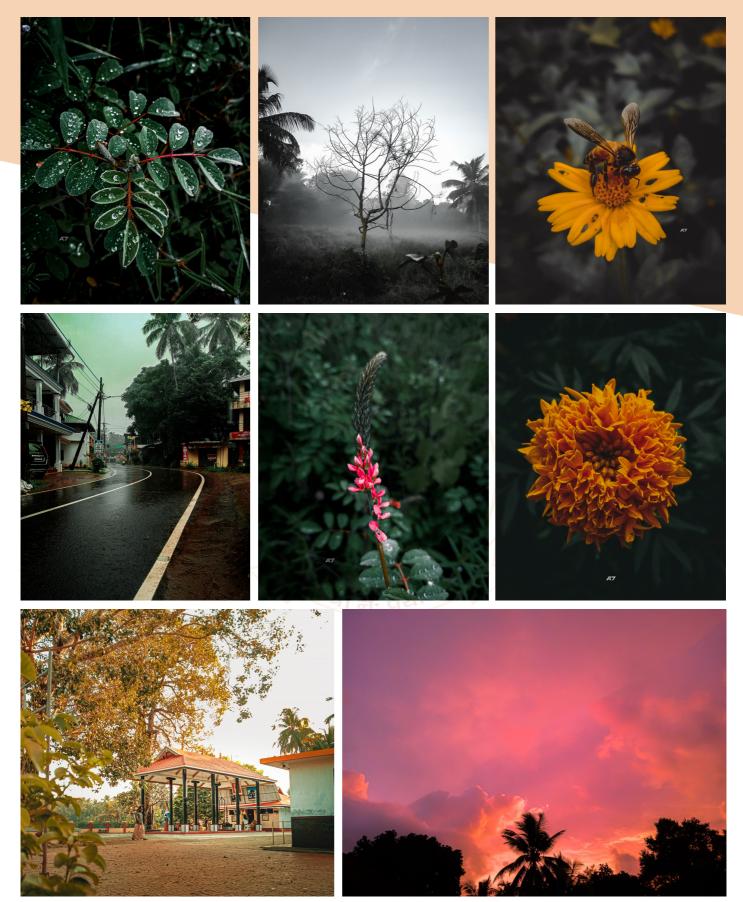
-Football match





YHQDQHOHO





-Abhishek NM | CSE | Second year



SREEPATHY INSTITUTE OF MANAGEMENT AND TECHNOLOGY



-Aysha Pareekutty | CSE | Second year



-Jyothis KP | Assistant Professor | CSE

-Hema P Menon | HOD | CSE





-Aiswarya P | CSE | Second year



V 0





-2nd Year





- IV 2021(2018 Batch)



- 2016,2017,2018





PLACEMENT LIST



SREEPATHY INSTITUTE OF MANAGEMENT AND TECHNOLOGY (SIMAT) VAVANOOR P.O, PATTAMBI, PALAKKAD - 679533

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No.