



**JUNE-JULY**  
**Edition**  
**2022**



**GRIET e Magazine**





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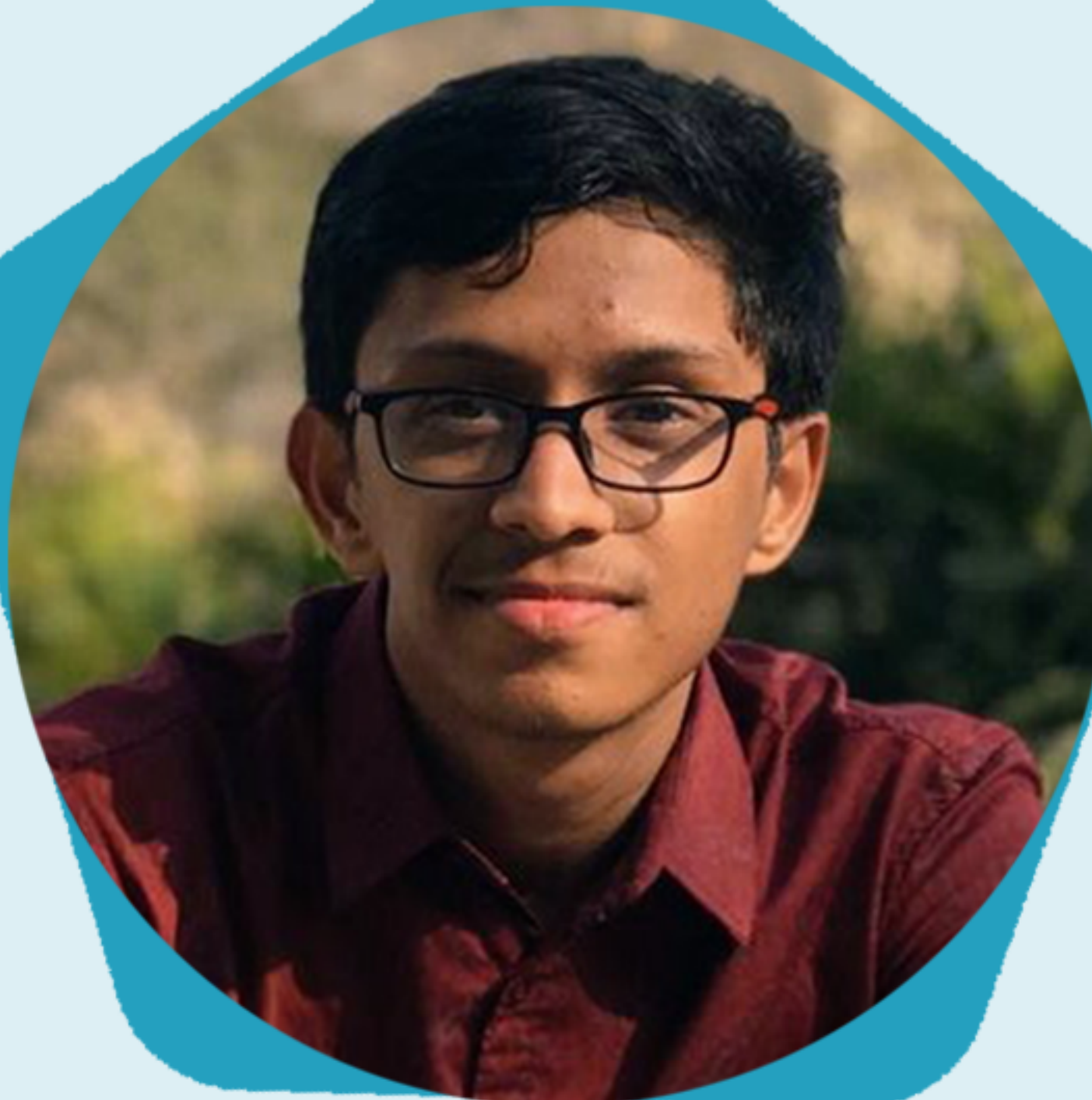
# GeM Legacy

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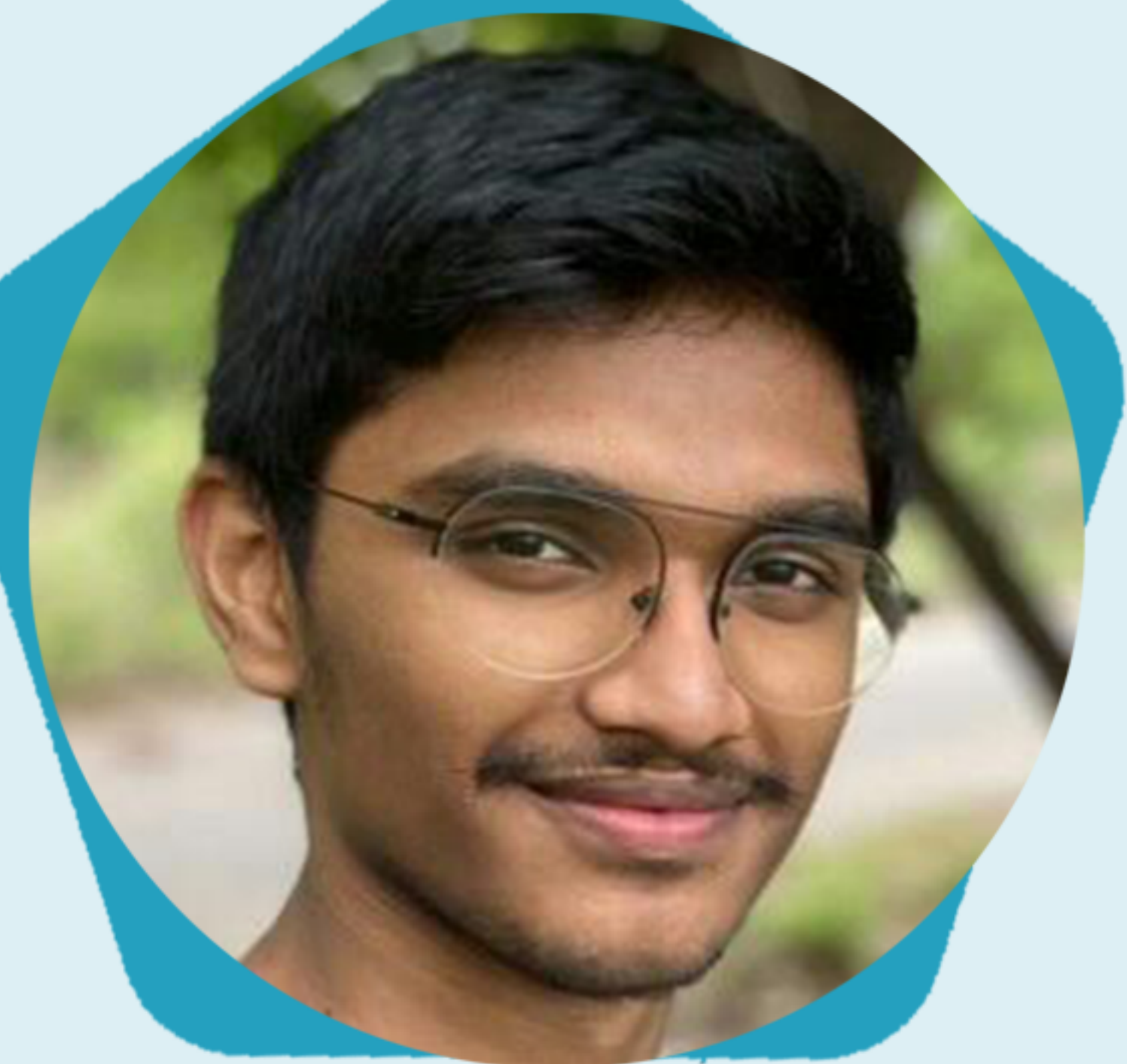
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# GeM Legacy

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C Sreeka Parinishta



## ***Grahpic Designers 2nd Years***



Sri Ramcharan

Prithviksit Pakala



## ***1st Years***



Induvandana P

Nithin





# CYBER SECURITY & ETHICAL HACKING

Ritika, CSE,

Computer Society of India (CSI) conducted a two-day workshop on Cyber-Security and Ethical Hacking on 4th and 6th of June 2022. The CSI Student Body Counsellor Dr. K. Madhavi, HOD and Professor, CSE, the Nominee Faculties Ms. Y. Krishna Bhargavi, Mr. G. Anil Kumar and Ms. B. Sindhuja graced the occasion. A zealous audience of 100 students from both 1st and 2nd years attended the workshop. The speaker for the workshop was Mr. Ajinkya Lohakare, who is a certified cyber security expert, an ethical hacker and a penetration tester.

The session helped the participants to discern the possible threats, and also made them aware about the profuse methods to keep their data safe. The session also consisted of briefing the students with software and services which help in refining their skills in the field of ethical hacking. A real time demonstration was given which the students also implemented, hence giving a hands-on working experience in real time.





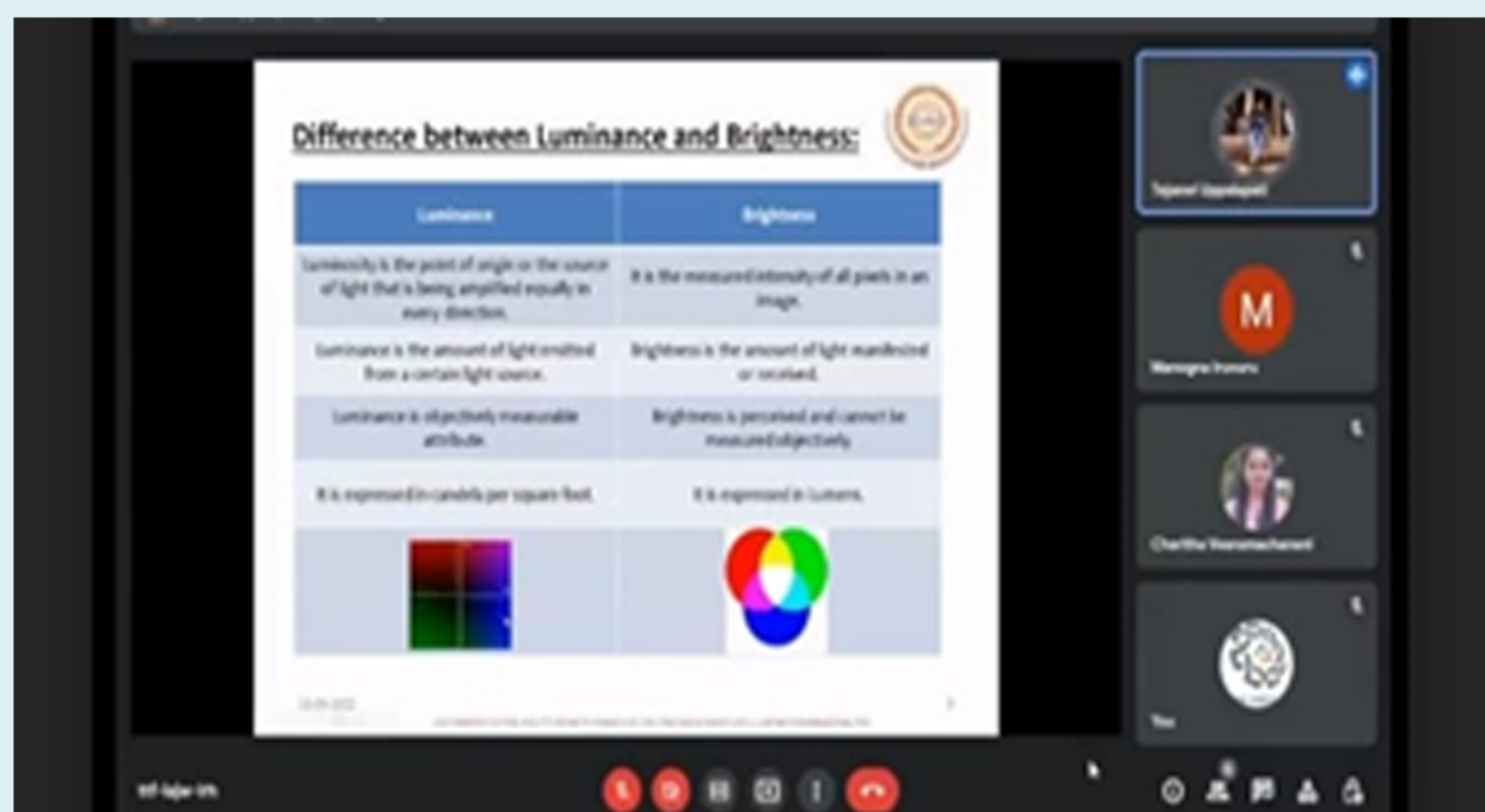
# Guide to building Final year project

C.Sreeka Parinishta, AIML

IEEE GRIET SB conducted a webinar on "Ultimate Guide to build your Final Year Project" under Geoscience and Remote Sensing Society on 11th June 2022 from 7:00 PM to 8:00 PM via YouTube live channel over the topic "Discernment of Fire and its Growth in Various Circumstances using Illumination Image Analysis".



Fire outbreaks and wildfires have been one of the most common disasters taking place around the world at an increasingly alarming rate and an early warning system is essential for reducing fire-related losses. While the previously existing methodologies used various detection based on color analysis, a new fire discernment algorithm based completely on light analysis was introduced.



The luminance and the brightness of the image are taken into consideration for the identification of fire in the following analysis to get the output that not only detects a fire but also highlights its growing intensity and its spread in the surroundings of the fire outbreak.

The speaker for the webinar is Miss Tejaswi Uppalapati. She began the session by discussing the relevance of her project. She explained how using the previously existing methods as a reference they implemented a light analysis method. While the previous method uses brightness, this new method uses luminance to detect fire more clearly. Using a flowchart and algorithm, she detailed her proposed method and its steps in a simple manner and with illustrative pictures, showed the working of the algorithm and the images obtained in every step, and how the final image is acquired. To perform all these stimulations, they used MATLAB. She then went on to show different scenarios like a kitchen fire, forest fire, etc to display the startling difference in accuracies between the existing method and their proposed method.



Miss Tejaswi gave an overall project view and then spoke about implementing the models and finding results using MATLAB. She explained the various keywords used in programs while elaborating each model process program step by step. The webinar concluded with an interactive Q&A session during which, the seniors gave many valuable suggestions and discussed the precautions needed to be taken when doing a final year project.

The session was engaging and very interactive. Students were very enthusiastic to participate and learn about how to do their final year projects and their senior projects.



# Guest Lecture on Rocket Science

Praneet Reddy, AIML-B

IEEE CAS GRIET SB and Department of ECE, GRIET organized a guest lecture on rocket science by Dr. Yalla Siva Prasad. The objective of the session was to help students obtain awareness on Rocket Science. This session was held on 13th June 2022 in the ECE seminar hall. Yalla Siva Prasad Garu started the session by telling the importance of ISRO and the activities done in ISRO. The speaker gave a brief idea about ISRO and started asking questions about rocket science to fill the spirit of the students. The speaker spoke about the importance of rocket science and its importance in the country's development. He explained the types of rockets that are developed and used by ISRO in various missions. He explained about PSLV and GSLV by showing us the schematic models and their contributions to India's space missions and explained the basic structure and design of these launch vehicles. He made everyone feel proud by showing the journey of ISRO from carrying rocket parts on a cycle to the world's best Space research organization.

Sir gave a deep knowledge of the projectile paths of a satellite and working. He explained the stages in a rocket and explained about the combustion mechanisms and the projectiles of a rocket and stated the reasons why launch centres are situated at a particular place. He also explained the communications technologies that a satellite uses and the benefits of polar and geostationary satellites. He provided insights about the Mangalyaan project and the reasons why it failed and how those failures helped to ensure the successful journey of Mangalyaan-2. The whole session was interactive and Sir ensured participatory learning by posing certain questions to students and the ones who gave the right answers were rewarded with a pen. ISRO being the flag bearer of India space missions Sir gave us an insider's view of ISRO's future missions. The lecture ended with a song about Dr. APJ Abdul Kalam and his service to India. The guest was presented with a token of appreciation by the principal and CAS Advisor.





# DRONE TECHNOLOGY & IT'S APPLICATIONS

Ritika, CSE

Advanced Academic Centre (AAC) conducted an exhilarating webinar on Drone Technology on 16th of June 2022, under the guidance of Dr. G. Ramesh, Dean AAC, GRIET. Drone Technology is one of the emerging technologies in this generation. The speaker and resource person for the day – Pradeep Palelli, CEO and Co-founder of Thanos Technologies, delivered a mind-boggling talk and enlightened the participants minds to instil interest on Drones.



The poster is for an online webinar titled "DRONE TECHNOLOGY & IT'S APPLICATIONS". It features a blue sky background with white clouds. In the top left corner is the GRIET logo, and in the top right is the AAC logo. The text "ADVANCED ACADEMIC CENTER" and "GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY" is at the top. The main title "DRONE TECHNOLOGY & IT'S APPLICATIONS" is in large blue letters. Below the title, the date "Date: 16th June, 2022" and time "Time: 6:00PM - 7:00PM" are listed. A QR code is in the center with the text "JOIN THROUGH QR" below it. On the left, a drone is shown flying. On the right, a circular portrait of Pradeep Palelli is shown. At the bottom left, the co-ordinator is listed as Dr. G. Ramesh, Dean AAC, GRIET. At the bottom right, the resource person is listed as Pradeep Palelli, Co-founder & CEO, Thanos Technologies.

**ADVANCED ACADEMIC CENTER**  
GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

**ONLINE WEBINAR**  
ON

**DRONE TECHNOLOGY**  
&  
**IT'S APPLICATIONS**

Date: 16th June, 2022  
Time: 6:00PM - 7:00PM

**CO-ORDINATOR:**  
**DR.G.RAMESH**  
DEAN AAC, GRIET

**RESOURCE PERSON:**  
**PRADEEP PALELLI**  
CO-FOUNDER & CEO  
THANOS TECHNOLOGIES

JOIN THROUGH QR



# ANDROID APP DEVELOPMENT WORKSHOP

-Praneet Reddy

GRIET Skill Development Cell has been entrusted the responsibility to train students by providing them various courses, with objective for enhancing their Employment/Self-Employment opportunities. To meet its objectives GRIET Skill development Cell (SDC) is focusing on improvement of Skills of the students on various fronts. This is done by Inculcating Skill development programs among students from first year onwards. Anticipating, before they complete their graduation, they will be ready with the necessary skills required by the industry. GRIET Skill Development Cell (SDC) is tied up with various world-renowned industrial giants like CISCO, AWS, REDHAT, BLUEPRISM UNIVERSITY, PALO ALTO NETWORKS etc. The main objective of skill development cell is to engulf the gap between industry and academy and to upskill and train students to establish their own start-ups and to get higher CTC packages.



Under GRIET Skill Development Cell SB a workshop was conducted on Android App Development on 17th & 18th of June 2022 at CSE Block Room no 1407. It was a two-day hands-on workshop organized by Rajiv Kumar Dasari. He is a Senior Android Developer in National Informatics Centre (NIC), Vijayawada Andhra Pradesh. Android is an open source and Linux-based operating system for mobile devices such as smartphones and tablet computers. Android was developed by the Open Handset Alliance, led by Google, and other companies. This Workshop will teach you basic Android programming and will also take you through some advance concepts related to Android application development. From this Workshop students learned the fundamentals that are related to Android App Development. By the end of workshop students understood the building blocks of android app development from which students built few applications based on the knowledge they incurred and participation certification was provided. The workshop was conducted for 2 days and both days containing a morning session and an afternoon session. And in the final session Students were made aware of the future scope in android development.





# IEEE - ENIGMA – JUNE'2022

-C.Sreeka Parinishta

"A Game of Knowledge – Enigma " was organized by IEEE GRIET SB on 18th June 2022. Enigma is a four-round quiz tournament that assesses participants' knowledge and evaluates their skills in various areas while fostering group cohesion.

From the 30 teams, two pools of 15 teams were formed, with each team consisting of 3-4 players. The quiz covered a wide range of subjects, including current affairs, sports, movies, history, politics, cuisine, and travel, and comprised various types of questions such as MCQs, Picture and Emoji questions, Chronological order questions, etc.



The first round included ten questions, with each correct answer scoring ten points and no deductions. The second round likewise had ten questions, with each correct answer worth ten points and each incorrect answer deducting five points. In the third round, each team was asked a series of five questions within a time limit of 5 minutes, with each correct answer worth 10 points and no negative grading. The fourth round consisted of 20 questions, with each accurate answer worth 10 points and each erroneous response worth -5 points. Throughout the competition, the hosts actively encouraged participants and managed to create a fun and welcoming atmosphere.



The top two teams engaged in a fiery Rapid Fire round to determine the champions. The winning team received a cheque for Rs.2000, while the runner-up team earned a cheque for Rs.1000. Dr. B. Phaneendra Babu, Branch Counsellor of IEEE GRIET SB then honoured the winners with cash prizes and certificates.

Overall, Enigma was a brainstorming, innovative, fun, and interactive event marked by students' enthusiastic preparation and participation. It managed to impart knowledge while ensuring the students had fun and helped bring out the best in them.



# Industrial visit to Hammond power solutions

-Praneet Reddy

The IEEE-IES SB Chapter of IEEE GRIET SB has taken the students of GRIET for an industrial visit to Hammond power solutions at Patancheruvu on 18th June 2022. The IEEE team along with Principal Dr. J. Praveen and Dr. B. Phaneendra Babu Head of Dept. of EEE, assistant professor D Karunakumar and Lab Assistant D Sreedhar Varma.

The students arrived at Hammond power solutions at 11:10 am and entered the manufacturing plant. As the students went inside, they were greeted by Mr. Ranjit Pohanekar (H.O.D of sales and service), Ch. Prabhat (Manager service), Gangadhar (Shed incharge), P. Anji Reddy and B. Arjun. Mr. Gangadhar has provided the students information of the history of Hammond Power solutions and how they function, and also explained the detailed construction of the transformer and its working and practical aspects.



The students were divided into 3 batches and sent one batch after another. First, they were shown how windings are arranged, what materials are used for insulation, and what different types of materials are used based on the rating of the transformer. Later, the construction of the core was explained, how and why the shape of the core is cylindrical and why it is required to laminate the core. It was then explained how the windings are placed in the core. The students were taken to another plant where the dry-type transformers and the transformer's cores' wiring is done and are placed in the transformer body where oil is filled and later packed and sent to the dispatch unit. All the questions asked by the students were clarified by K. Madhu Krishna sir. The industrial visit came to an end and the students started returning to college at 1:20 PM.





# YOGA DAY

Ritika, CSE,

In honour of International Yoga Day, GRIET orchestrated a quiz about yoga on 20th of June 2022. The ambience was buzzing with healthy competitive spirit and liveliness from the participants. Top three winners bagged cash prize and all other participants, students and lecturers included were acknowledged. The session was very enlightening and cheerful.





# E-Talks

-C.Sreeka Parinishta

Aiming to inspire young minds by introducing successful entrepreneurs and their journeys, EDC and IQAC in association with TiE, organized an event called E-talks on 23rd June 2022 for the students of GRIET. Many distinguished personalities graced the occasion. The esteemed guests that attended the event include Dr. Jandhyala N. Murthy sir -The Director of GRIET, Mr. Kisshhan P.S.V a GRIET alumni who is also the Founder and CEO of H-Bots Robotics, Mr. Srinivas Madhavam - Founder, and CEO of EXPRS and VDeliver, Ms. Asha V.M - Co-Founder of Nutricook Cookwear, Mr. Siddharth Kukatlapalli - Co-Founder of Syntizen Technologies.



The event opened with a speech by Dr. D Indira the Dean of EDC GRIET. She spoke about EDC and its evolution over the years. The speakers then went on to speak about their domain of work and narrated their experiences up the ladder of success. They shared the knowledge and wisdom they gained during their journeys. The Director of GRIET, Dr. Jandhyala N Murthy sir inspired the students with his enlightening words.

All the speakers encouraged the students to find their paths. They motivated the students to be brave and embark on their journeys to explore their career paths.

The event concluded with the felicitation of the guests as a token of appreciation for their presence on the fine day and a vote of thanks.





# HARMONICS IN POWER DRIVE SYSTEM

Manasa Kumari

Harmonics are electric voltages and currents on an electric power system that can cause power quality problems. They are created by electronic equipment with non-linear loads drawing in current in abrupt short pulses. Due to high harmonic voltage or current levels, malfunctioning of equipment and machinery has been observed.

To spread awareness on this topic the IES IEEE GRIET SB conducted a webinar on "Harmonics in Power Drive Systems" on 25th of June 2022, timings from 11:30AM to 12:30PM. It was coordinated by Ms. Satyavaani ma'am, IES faculty advisor, along with Dr. B. Phaneendrababu, HOD, EEE, GRIET, and Mr. Ravikanth K, faculty, EEE, GRIET. This technical talk was held in the EEE seminar hall.

The Guest speakers were Mr. Ananda Sai, Solutions Lead in Power Electronics, Tech Mahindra. He is an alumnus of GRIET, having over 15 years hands-on experience in various stages of product life cycle of Power Electronics and Electric drive products. Mr. Srinivas NVNS, Senior Staff Engineer in Chipset Architecture at Qualcomm. He is also an alumnus of GRIET. Sir has over 15 years of experience in industry designing embedded

The speaker of the session Mr. Ananda Sai, began the online session discussing the basic questions on harmonics and its effects. How its caused? What are the common problems faced due to harmonics? And later on, diving into the Power Drive Systems and how harmonics affects them. During the session everyone was interacting and taking interest to learn about harmonics and ways to reduce them so that the cost on equipment downtime and repair costs could be reduced. The technical talk concluded with a Q&A session where students cleared their doubts, they had on power drive systems and interacted with the speakers more.





# Biomedical signals & its applications

C. Sreeka Parinishta

There has been tremendous growth in the Biomedical field since the start of the Corona Virus pandemic. To raise awareness about it, ISTE GRIET SB organized a Seminar on Biomedical Signals and their applications on 25th June 2022.

Dr T Padma, NSS coordinator commenced the seminar with an introduction to the vast Biomedical field and mentioned its various applications while giving relevant relatable examples to highlight its importance in the



The seminar helped students know the many devices developed for measuring the bio-signals in the human body. They discovered the various types of signals and their frequencies of blood flow, blood pressure, and Neuronal voltage with detailed graphs and flowcharts. They were also introduced to the concept of Normal and Pathological Electrocardiograms and learned about its visualization with real-time examples such as Bio ARM Amputee, and BP monitor.

The concept of application in AIML and GUI was discussed following which, there was an active Q & A session where many intriguing questions were raised. The informative session concluded with a token of appreciation.





# COMPUTER SOCIETY OF INDIA -PARENTING IN THE DIGITAL AGE- JUNE'2022

-Ritika

India's first non-profit organization, advocating for better Internet Ethics and Digital Wellbeing, the End Now Foundation organized a workshop on 25th of June 2022, on the theme, 'Parenting in The Digital Age is Tough. Fact or Fiction?' Several dignitaries graced the event, Vijay Kumar, IPS, TS Sudhir, educator turned journalist and Uma Sudhir, NDTV journalist were a few of them. The avid attendees consisted of Psychologists, Cyber Police officers, Cyber Lawyers, Journalists, Academicians, IT Experts, Social Media Influencers, Parents, UG students from the first year and students from other institutions.



The workshop was aimed to address the rising concerns on parenting in this digital age. Speakers from various domains put forth their varied perspectives on the issue. They provided their outlook as to why the problem arises and what could be the possible approach that the parents can equip themselves with and to tackle them. The session also consisted of debates and interactions with the audience. The workshop delivered insights into parenting and raising children.



# RHYTHMS-JUNE'2022

-Ritika

Team Rhythms participated in "Sintillashunz" organised by VNR VJIET college on 4th of June 2022. Every band from every part of the city came to showcase their talent. 'Band Retrieve' from GRIET sang and enthralled the audience as their combined beats strummed the hearts of all. Band Retrieve gave all their and made their passion for music be heard through their beats.



Team Rhythms never fails to entertain their crowd, and this was seen in the Canteen Event too which was organised on 20th of June 2022. Invincibles performed an energetic dance number followed by the sweet melodies of Band Retrieve. The team staged a soulful live performance and received immense love from the crowd. Team Rhythms also collaborated with Esha Foundation to serenade the importance of the #savesoil movement. The Canteen event was a huge success that left the crowd in a dazzle.



Team Rhythms participated in the Battle of Bands orchestrated by MGIT on 1st July 2022. They bagged the second price for their electrifying performance and brought massive glory to GRIET.





# Alumni talk

C.Sreeka Parinishta,

The best people to tell us about what has been and what will be are the ones who've been through it all. Introducing the students to the life ahead, 2004 Alumni Delivered a talk in Dept. of EEE.



They reminisced about all the times they had and gave the students a knowledgeable talk along with valuable career advice. They helped students gain some perspective about the things in the industry and what they can look forward to in their careers. It was truly an enriching experience.



# AG- STAR EVENT

Katala Sanjana, CSE

They say that helping hands are better than praying lips and kindness is a gift which everyone can afford to give. Our students have set a good example for also for these by actually paying a visit to the Cheers foundation. Our college student body, IEEE Women in engineering has conducted a star event in the Cheers foundation orphanage which resides in Kaithaipur, Kukatpally. The coordinators for this event are Dr. Sridevi, who is the advisor of the IEEE GRIET WIE chapter and Prof. T Padma who is GRIET NSS coordinator. This event was held on July 1st, 2022. It was a soothing and enthralling experience of visiting that place. More than anything, it has given immense satisfaction to our students. They interacted with kids and had many ice breaker sessions, educational activities and various other games were conducted which kept them engaged and allowed them to make new memories.

Basic commodities were given by the students to the management for the kids. By the end of the day, students' hearts were filled with nothing but compassion and the smiles on the children's faces moved their hearts.



The kids spoke about their dreams, ambitions, career goals, and personal interests and our fellow students enjoyed listening to them.



# Nature is Awesome, isn't it?

*Beautiful rays of sunlight  
Striking through your eyes  
Giving new hope to begin  
your new life*

*The droplets of the rain  
Touching your feet  
making you feel the importance  
Of living in the present moment*

*The cool breeze of the winds  
Surrounding you, assuring you  
All the energy you'll be needing  
throughout your life...*

-Siddeshwari Anishetty  
-21241A6605  
-CSM A






# Everything Is temporary...



*Beauty fades with the time  
Health deteriorates with the  
time  
and not only people  
Even you change with the  
time...*

-Siddeshwari Anishetty  
-21241A6605  
-CSM A








Sky isn't the limit...

• • • • •

*Sky isn't the limit  
Coz we already landed on  
the moon  
You've got a lot of potential  
discover it soon  
Don't waste your precious  
time  
Life's greatest boon!!!*

-Siddeshwari Anishetty  
-21241A6605  
-CSM A





# Arts



Alladi Sanjana  
21241A6615  
CSM-A  
I st Year



B.Thanuja  
21241A6610  
CSM-A  
I st Year





# Arts



Chilupuri Harshitha  
21241A6619  
CSM-A  
I st Year



Amrutha  
Varshini.CH  
21241A6618  
CSM-A  
I st Year