



# K.S.INSTITUTE OF TECHNOLOGY

(Affiliated to VTU Belgavi, Approved by AICTE, New Delhi & Accredited by NAAC & IEI)  
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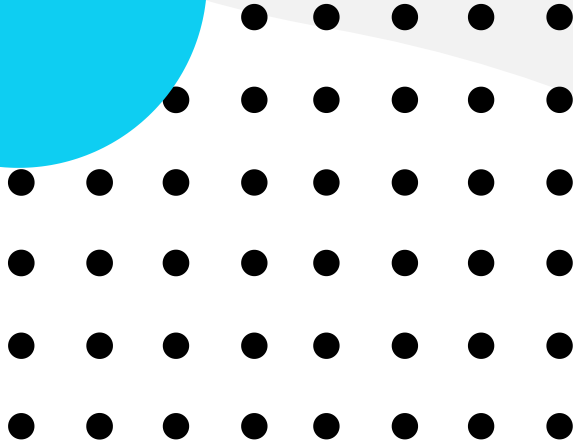
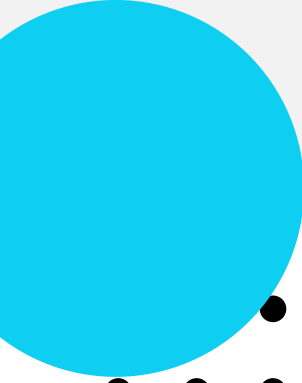
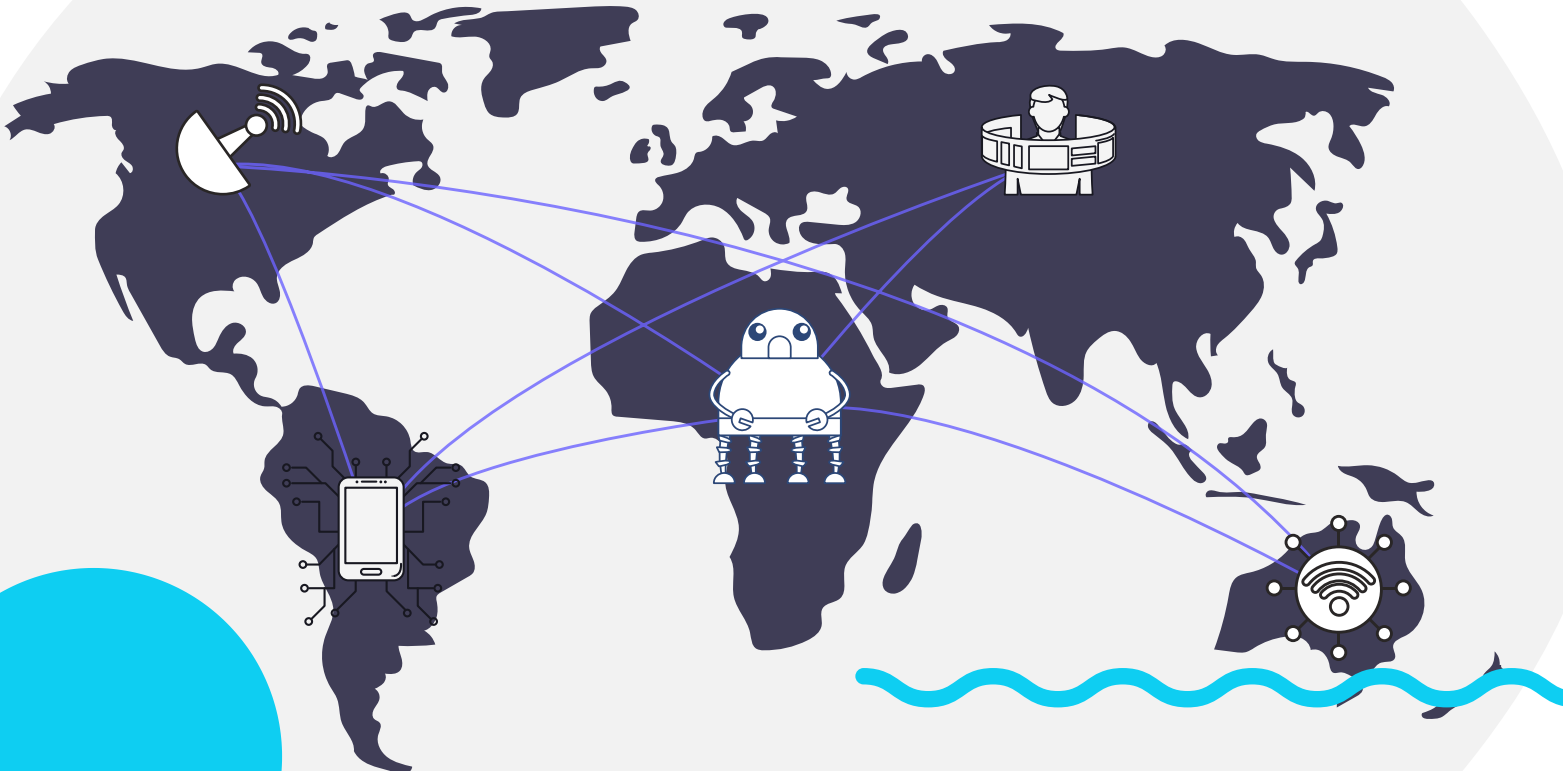


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IEEE KSIT SB PRESENTS

# momentum

VOLUME -6 2021



# ieee\_ksit



# K. S. INSTITUTE OF TECHNOLOGY

## VISION

“To impart quality technical education with ethical values, employable skills and research to achieve excellence”.

## MISSION

- To attract and retain highly qualified, experienced & committed faculty.
- To create relevant infrastructure
- Network with industry & premier institutions to encourage emergence of new ideas by providing research & development facilities to strive for academic excellence.
- To inculcate the professional & ethical values among young students with employable skills & knowledge acquired to transform the society.



# DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

## VISION

“To achieve excellence in academics and research in Electronics & Communication Engineering to meet societal need”.

## MISSION

- To impart quality technical education with the relevant technologies to produce industry ready engineers with ethical values.
- To enrich experiential learning through active involvement in professional clubs & societies.
- To promote industry-institute collaborations for research & development.



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# MESSAGE FROM CEO



## DR. K.V.A. BALAJI

### CEO, KSGI

There have been many ways of learning for a professional to excel in his chosen field. A few of them could be identified as listening to people from the field, doing things on our own, field visits, exploring new frontiers through seminars and conferences and any other academic engagement. These avenues for learning is what the IEEE opens up in an institution and the student chapter of IEEE that is very active at KSIT have ventured into these mode sof learning and have done very well. The list of activities that have been organized by this vibrant student chapter is very impressive and I am sure that all the members have had a great deal of learning. I sincerely appreciate the efforts of the students in making this happen here at KSIT and congratulate all of them for the wonderful learning they have had at this chapter. I wish each and every student member a great deal of success in their professional as well as personal life that makes them complete and very successful citizens wherever they are.

# MESSAGE FROM PRINCIPAL



## DR DILIP KUMAR K PRINCIPAL KSIT

I congratulate the IEEE KSIT -SB along with WIE Entity group for releasing 6th volume of IEEE Magazine "MOMENTUM". This magazine reflects on what we have achieved, learnt and are still learning . I am proud to say that our student branch has conducted so many Humanitarian and Technical events. I encourage the entire team to keep up the excellent work and take our college name to greater heights. My Best wishes to the entire team!



# MESSAGE FROM BRANCH COUCELLOR



## MS JAYASUDHA BSK

**BRANCH COUNCELLER IEEE KSIT SB, SECRETARY WIE BANGALORE SECTION**

Hope you and your loved ones are faring well as the effects of covid- 19 continue to ripple throughout the world. It is with much joy and anticipation that we celebrate the launch of IEEE newsletter. IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. As a branch counselor, I have witnessed the students interest and enthusiasm to explore the engineering world and to my opinion IEEE is the best platform to guide and satisfy them. At KSIT, IEEE student branch along with WIE (Women in Engineering) affinity group and signal Processing society is formed with the quest of achieving our technical and professional goals with IEEE's mission and vision. And most importantly encourage our students to contribute to real world problems. IEEE KSIT SB is keeping wonderfully busy and our virtual events are abundant. Signal processing society virtual inauguration, IEEE day celebrations with poster making, quiz and Ideathon contests, webinars and many more virtual events reached many members and non-members. The student members of our branch have done excellent job with highest order of energy and interest. Hope to move on with the same pace with more sharp edge towards excellence and wider reach. I heartily invite you all to extend your support and join us in all the activities related to IEEE at our KSIT student branch and contribute to better humanity. Wish you continued health and safety



# MESSAGE FROM STUDENT CHAIR



## MR. CHARAN Y

### STUDENT CHAIR IEEE KSIT SB

Hey, Hope each of you are blossoming, holding on to any shred of optimism and persistently making the effort to spread positivity omnidirectionally in these unprecedented times. All of this will pass soon, but till then "Heal the world, make it a better place, for you and for me and the entire human-race " These are indeed trying times, but remember that, "Happiness can be found in the darkest of times if one only remembers to turn on the light" I sincerely like to thank you all for continuing your association with IEEE KSIT Student Branch. It is because of your contributions and efforts, that we have been able to win so many awards since the past few years. Thanks to the efforts of all the Volunteers, today we are one of most influential Student Branches across IEEE Bangalore Section with over 2100+ and counting followers on our Social Media handles. I take this opportunity to bring to light, what an immense pleasure it has been to be a part of IEEE KSIT SB for 4 colourful years. My final year in the SB here has been an absolute delight, serving as the Student Chair at this dynamic Student Branch, with my team and the teachers who have been so supportive. This post that I have been given has definitely made a transforming impact in recognizing my Leadership skills. I am honored and privileged to have served as the Chair for the term 2019-2020. We won the Best Small Student Branch award back in 2018 and our Branch Counselor won the Best Branch Counselor award in AGM 2020. Keeping these in mind and going ahead, I hope we win many more awards this year for our Student Branch and in the years to come. I'm positive that the legacy will continue. Cheers to the incoming Batch of 2021. Passing on the baton of responsibility, wishing you a fantabulous year ahead. Let's make IEEE KSIT Great Again !!!

# ABOUT THE STUDENT BRANCH

The IEEE Student Branch was inaugurated in KSIT in the year 2002. The branch aspires to enrich the students of KSIT with the latest developments in various fields of technology and research developments. IEEE KSIT SB along with its WIE Entity and IEEE KSIT SPS conduct various technical and semi-technical events to ensure that the students' competency levels are enhanced to meet the required standards in today's industry. IEEE KSIT strives to invigorate the experience of organization and participation in the students through events that are conducted through the year.

INNOVACEEEA is the Mega event conducted by the student branch having participants from various colleges. IEEE KSIT along with its WIE Entity conducted a 5K MARATHON with the theme "We Run, You Learn" in the year 2019 which had 200 plus participants. The SB also conducted an online programming challenge in the year 2020 "CODE\n WIN 1.0" which had about 500 participants



# WOMEN'S DAY CELEBRATION



**MRS SANGEETHA PROFESSOR EC DEPT.AT KSIT HOSTING THE EVENT**



**DR P.R MUKUND'S**



**PRINCIPAL MR BALAJI**



**PRINCIPAL MR BALAJI FELICITATING  
CHIEF GUEST DR P.R MUKUND**

IEEE KSIT Student Branch organized a talk by Dr. P. R. Mukund, president of 'The foundation for the Preservation of Knowledge' on Veda and Electronics on 8th March, 2021. All the dignitaries, teaching and non-teaching staff and IEEE members were part of this talk.

## AFTER PARTY

IEEE execom members organized various games and competitions for the women teaching and non-teaching staff of the college.



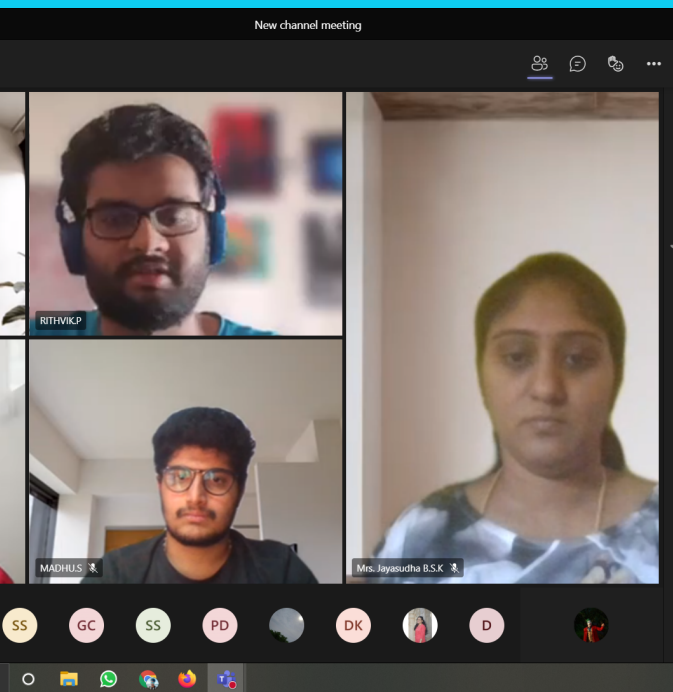
**WINNERS FROM THE AFTER EVENTS**



# WOMEN'S DAY CELEBRATION

## GLIMPSES OF SOME FUN GAMES WITH THE TEACHERS





# FIRESIDE EVENT

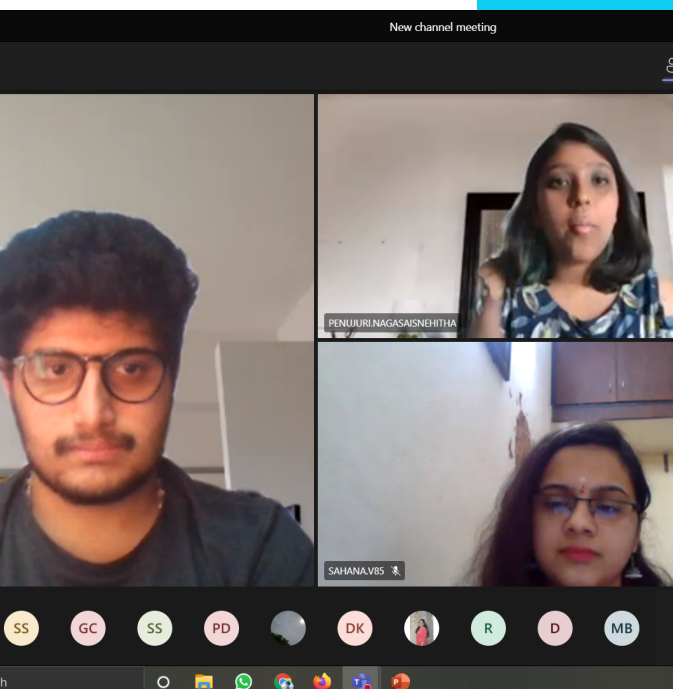
WITH IEEE VOLUNTEERS



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By IEEE KSIT  
Student Branch

IEEE KSIT Student Branch conducted the fireside event on 31st May, 2021. A total of 122 participants joined which included IEEE staff EXECOM, teaching staff, IEEE student branch EXECOM and ECE branch students.



It was an interactive event where Ms. Jayasudha ma'am gave information about what IEEE is, why should a student join IEEE and its benefits. Session continued with Ketan Keshav providing his insights about IEEE in general. Nagalekha, Disha and Rithvik sharing their experiences of being IEEE members. This was followed by a Q&A session where new students' doubts about IEEE were cleared.



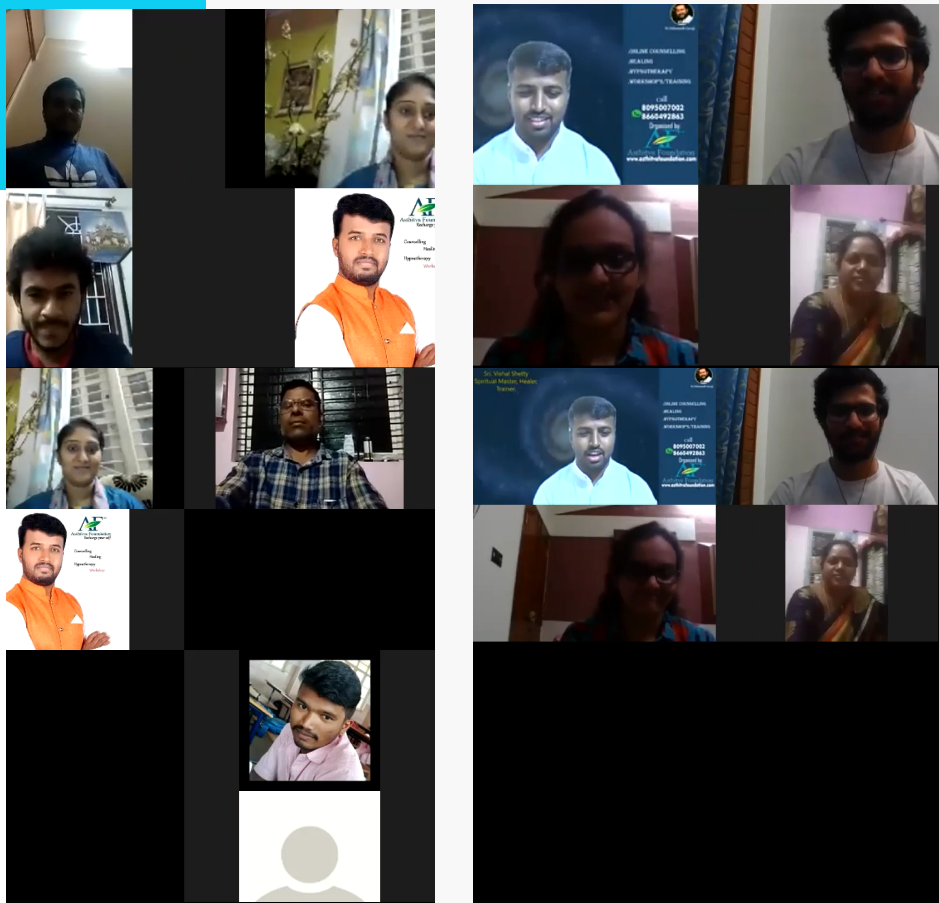
This event was conducted by respected **Mr. Vishal Shetty**, a Spiritual leader from ASTITHVA FOUNDATION who spoke about the benefits of meditation.

The event started off by praying to the almighty and **Krithika P**, SB Secretary welcomed the guest of honor. **Charan Y**, SB Chair also said a few words about ASTITHVA FOUNDATION. It was an hour long event where the audience learnt details of meditation and about the importance of positive thinking.

The event had a lot of interactions from the audience and received a very good response. Most of our professors were also a part of the show.



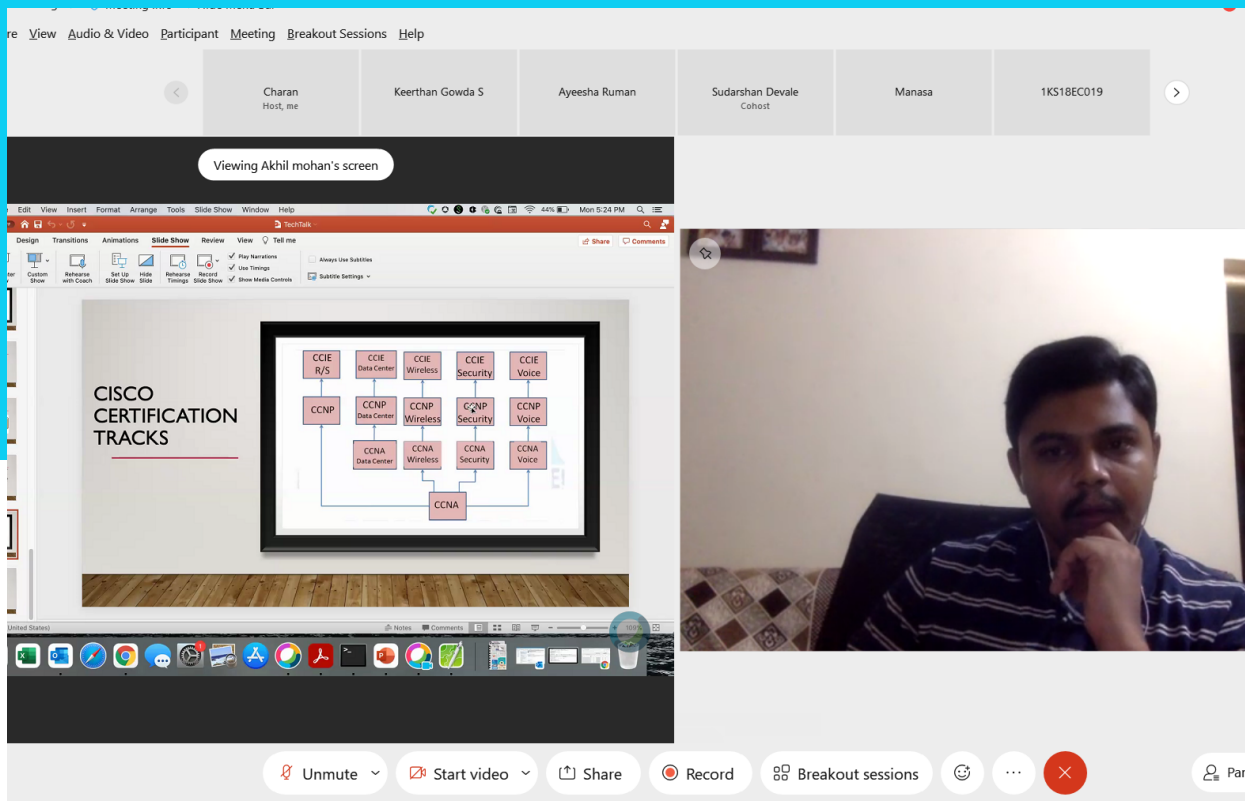
RESPECTED MR. VISHAL SHETTY



# POWER OF POSITIVE THOUGHTS

BY ASTHIVA FOUNDATION

# INTERNET COMMUNICATION AND NETWORKING WORKSHOP



## MR AKHIL MOHAN ENLIGHTENING THE STUDENTS

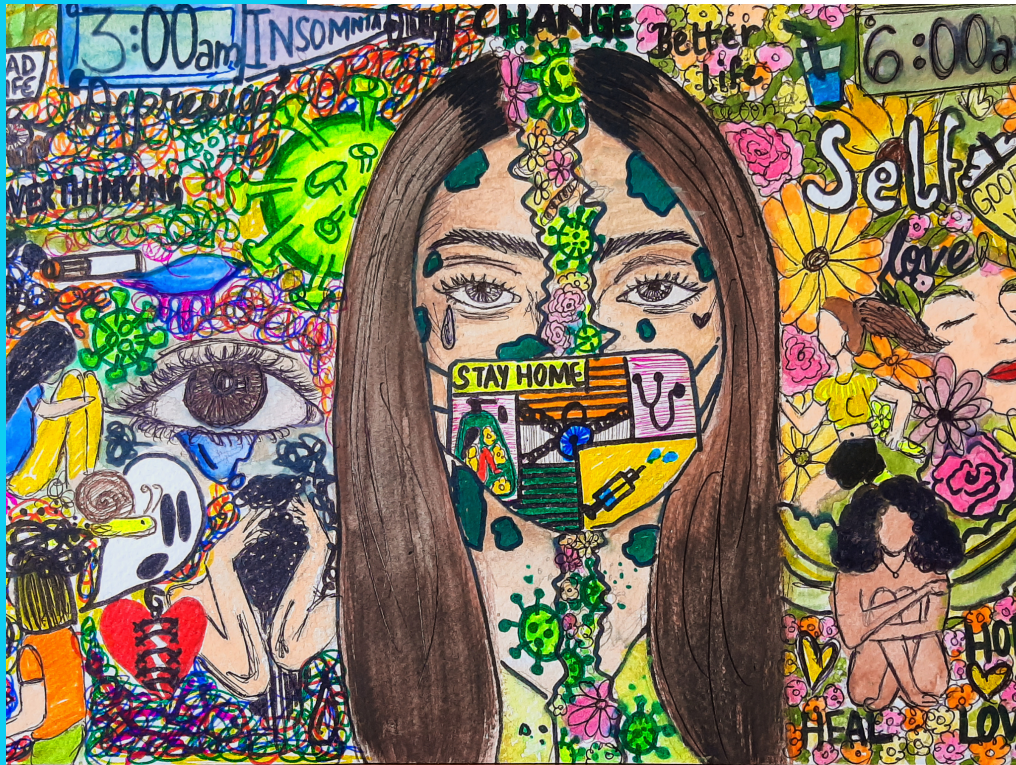
Special guest **Akhil Mohan**, Technical Solutions Engineer in Akamai Technologies |AWS - SA | CCNA took this informative session about internet communication and networking.

Sir Mr Akhil Mohan started the session with telling the students about the role of internet. Domain name resolutions, blocks of internet, information about secure connections and networks like http and https, and relationship between HTTP and SSL were the topics sir covered.

The session was concluded by Cisco certification tracks. The session concluded with an interactive Q&A session where sir cleared many doubts of the students.

The event was conducted on Monday at 4 PM on Cisco WebEx. It was joined by about 100 participants including IEEE staff EXECOM, teaching staff, IEEE student branch EXECOM and 2nd and 3rd year ECE branch students.

# CREATIWITI

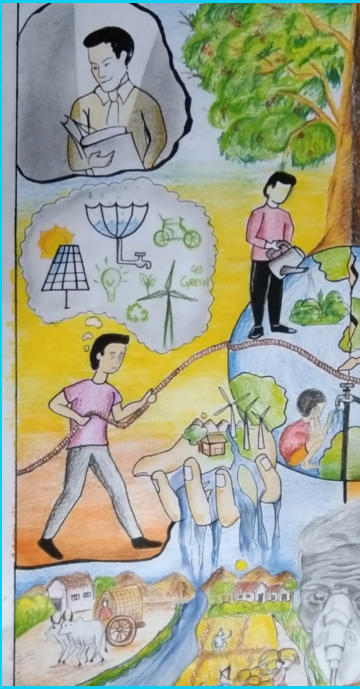


## ONE OF THE SUBMISSIONS FOR CREATIWITI

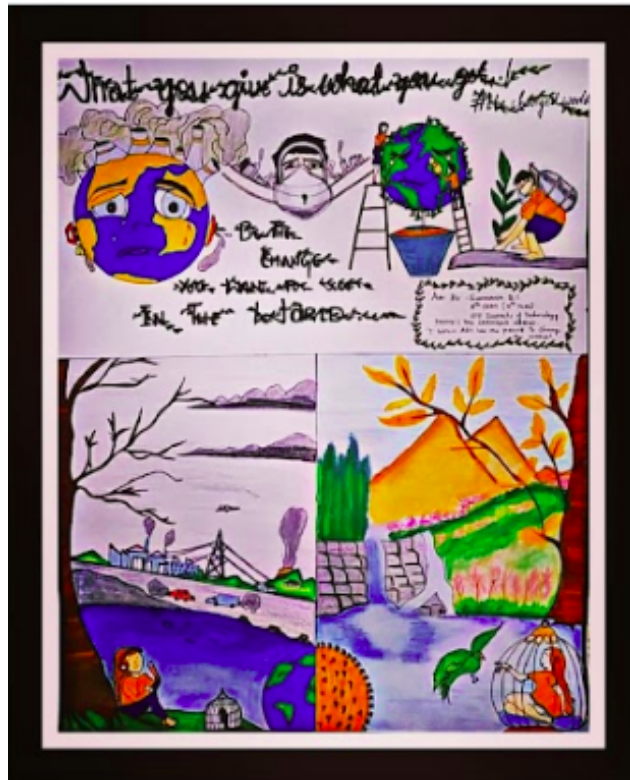
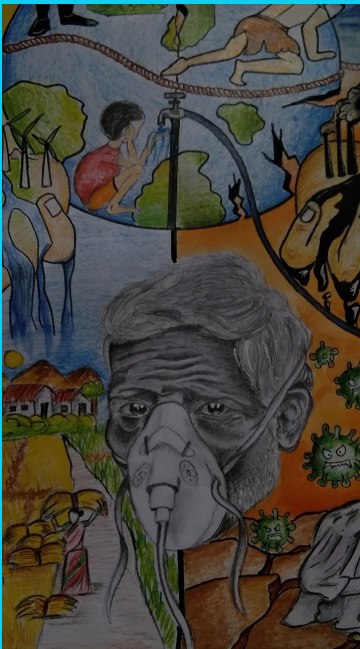
An Inter- College Online Art Competition was organized by the IEEE KSIT Student Branch. The theme for the competition was "The Changed World". The students were asked to submit their art based on the theme with a short note explaining the meaning behind it. The Theme was announced on 15th June 2021 and the participants were given 6 days to submit their artwork via email.

Students from various colleges participated in the event. There were 4 prize winners announced after the decisions made by the judges.





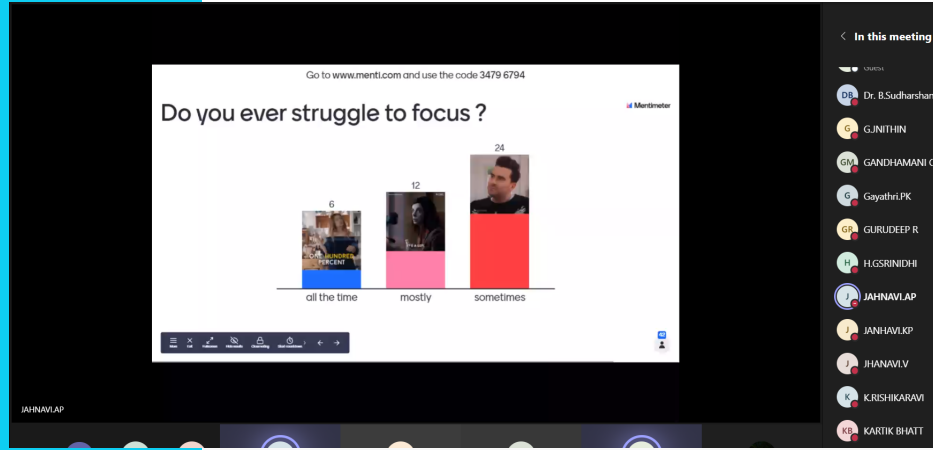
**OTHER  
SUBMISSIONS  
FOR  
CREATIWITI**



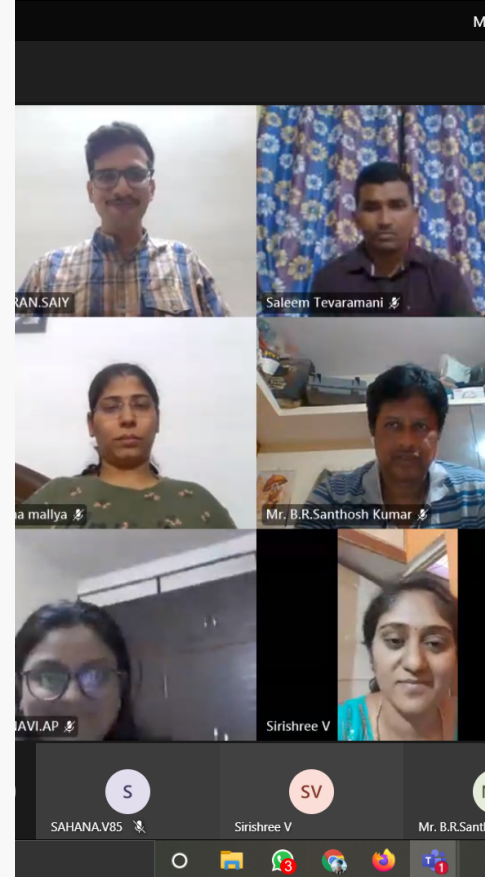
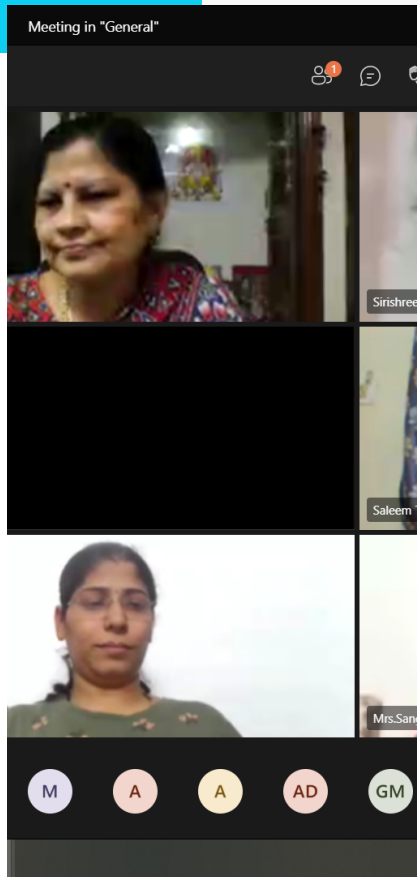
**IEEE** along with **WIE** organised this event for teachers to get together, bond and have fun.

The agenda of the event was to present a non-technical event to the prefinal and final year students (IEEE and Non-IEEE members) and the lecturers.

This event started off with an ice-breaker session that involved interaction with audience through fun questions and riddles. Another insightful story session was narrated by **Jhanavi**, deputy secretary SPS with an underlying message about why and how to improve focus.



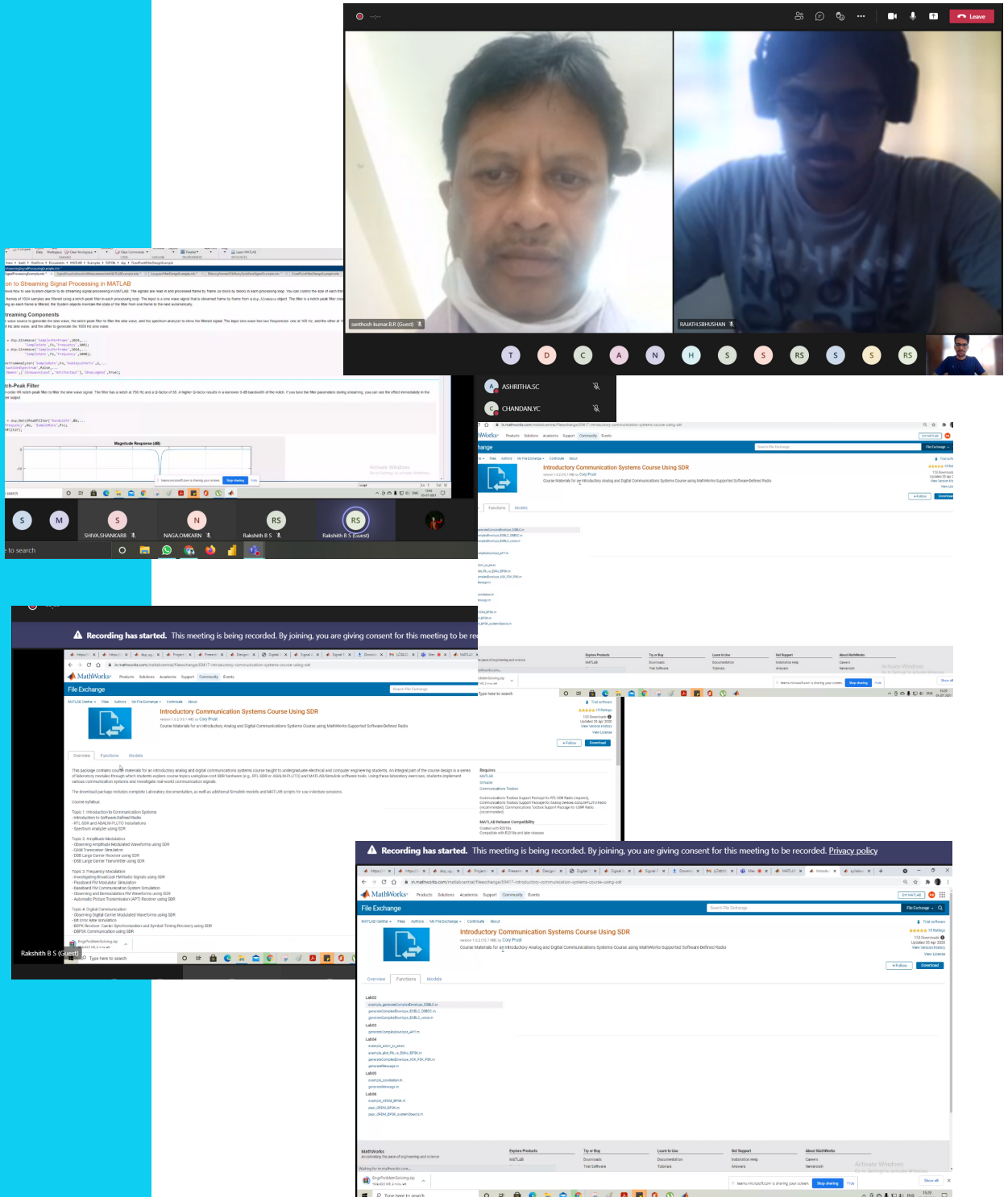
The session ended with a fun game that involved picking questions for the teachers by the students which was meant to bring a light atmosphere to the session and provide room for students and teachers to bond more.



# FOCUS FLOW



# DIGITAL SIGNAL PROCESSING APPLICATIONS USING MATLAB



The webinar began with **MR. Rakshith BS** (Senior Application Engineer CoreEL Technologies) sharing his experiences. He gave a go through on MATLAB and covered the basic topics and importance of using MATLAB. The meeting was concluded by a Q&A section at the end of the webinar.

# HEALTH AND STRESS MANAGEMENT FOR STUDENTS DURING COVID-19



The slide features a green background. On the left, a photograph shows a woman in a light blue shirt covering her face with her hand, appearing stressed. A yellow speech bubble above her head contains the text "Fear of being Failure" and a sad face emoji. To the right of the image, the title "STRESS IMPACTS ON Our Mind" is written in white. Below the title, a bulleted list of stress impacts is provided. A small circular logo is visible in the top right corner of the slide.

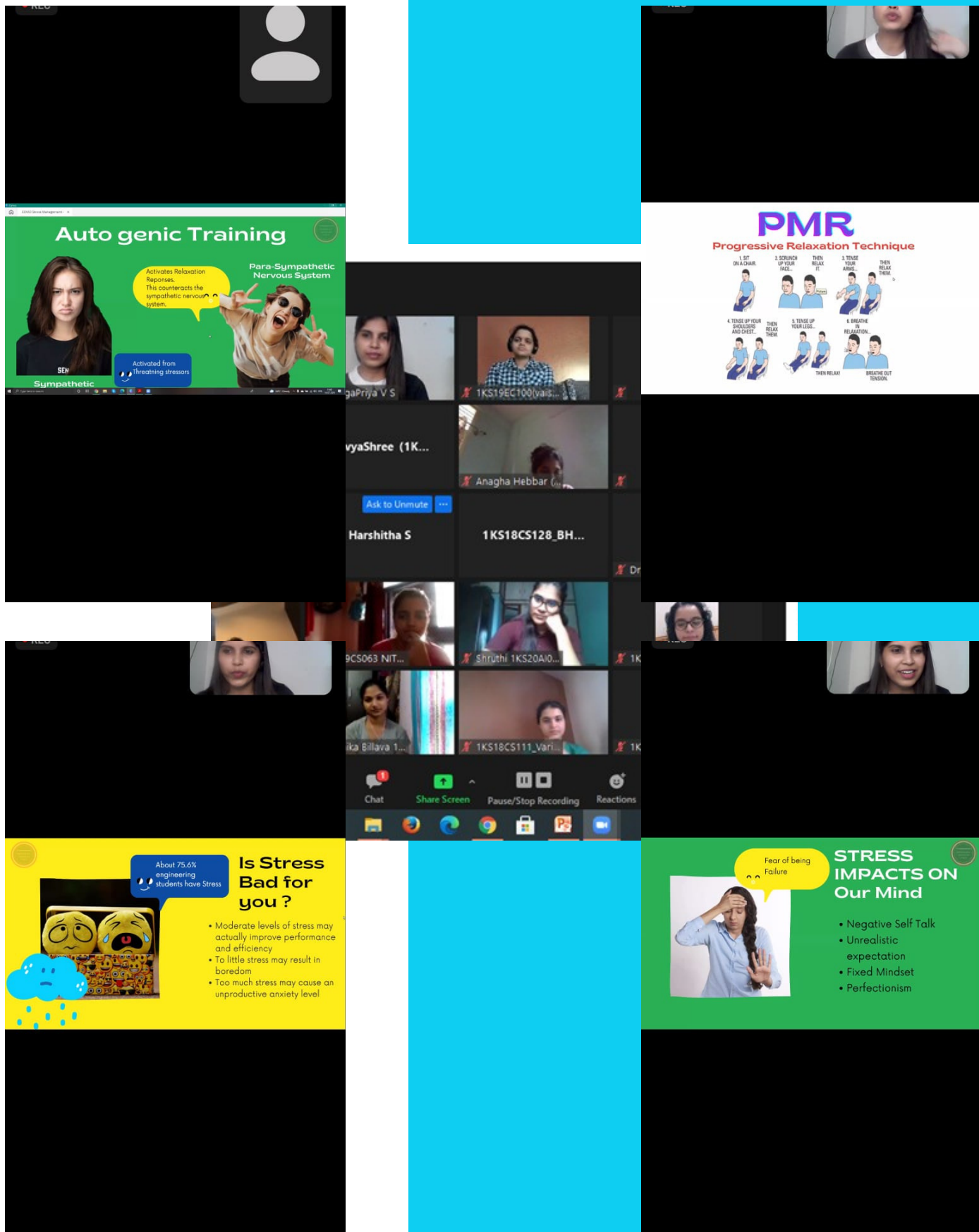
## STRESS IMPACTS ON Our Mind

- Negative Self Talk
- Unrealistic expectation
- Fixed Mindset
- Perfectionism

A webinar on Health and Stress Management was organized for the girl students from all the departments in KSIT. It was organized by the **KSIT-ASH Committee** in association with IEEE-WIE on July 14th, 2021. The ASH Committee Co-Ordinator **Dr. Chanda V Reddy** and the organizer **Mrs. Sangeetha V** welcomed the speaker of the event. The speaker was **Mr Shanmuga Priya VS** who is a Nutritionist and a Counseling Trainer.

The session started at 2.00 PM. There were 242 attendees for the webinar. The speaker gave tips about reduction and management of stress and how to improve one's health during the pandemic. It was an interactive session. Everyone discussed their methods of reducing stress.

# SOME GLIMPSE FROM THE HEALTH AND STRESS MANAGEMENT FOR STUDENTS DURING COVID-19 WEBINAR



# WORKSHOP ON PROGRAMMING LOGIC

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The workshop witnessed 128 participants from various branches in total. The Speaker **Dr. P. Joy Prabhakaran** gave brief up about the basics of programming on the first day. The participants were practically asked to execute particular codes in between workshop. Easy to medium set of questions were given to solve on the second day of the workshop. Additionally, participants were allowed to discuss their doubts and methods of approaches with their peers. The two-day workshop concluded with a query session at the end.



The event ended at 8 pm on both the days of workshop. The entire session was interactive and various branch students attended the event. The event was informative and provided hands-on experience with the coding tool. Overall, the workshop was really beneficial.

# STAFF EXECOM



**MRS JAYASUDHA BSK**



**MR. SANTOSH KUMAR**



**DR P.N SUDHA**



**MRS SANGEETHA V**



**MR B SUDHARSHAN**



# STUDENT EXECOM

IEEE



**CHARAN Y, CHAIR**



**SAHANA V, VICE CHAIR**



**KRUTIKA.P, SECRETARY**



**SHUSHMITHA. K.N,  
TREASURER**



**NAGA OMKAR,  
DEPUTY SECRETARY**



**SHIVA SHANKAR  
DEPUTY TREASURER**

# STUDENT EXECOM

WIE



**DISHA S, CHAIR**



**MEGHANA C.V,  
VICE CHAIR**



**SRIVIDYA, SECRETARY**



**DIVYA TM, TREASURER**



**MEGHA , DEPUTY  
SECRETARY**



**SHUSHMITHA R,  
DEPUTY TREASURER**

# STUDENT EXECOM

SPS



**DEVALE SUDARSHAN,  
CHAIR**



**ABHIJIT SUDHIR,  
VICE CHAIR**



**M SIRISHA,  
SECRETARY**



**APEKSHA, TREASURER**



**JAHNAVI AP,  
DEPUTY SECRETARY**



**VRINDHA SHAM,  
DEPUTY TREASURER**



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# STUDENT EXECOM

MDC

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**RITHVIK P, CHAIR**



**THANUSHREE D,  
VICE CHAIR**



# VALEDICTORY 2021

The Valedictory function of IEEE KSIT was held on 23rd October 2021. Dr. Dilip Kumar K, Principal and Director, KSIT and Dr. P N Sudha, Professor and Head, ECE, KSIT presided over the function. With Dr. Jayasudha B S K as the speaker, the occasion was graced by the EXECOM-2020 members handing over the responsibilities to the current EXECOM-2021, to move forward and lead the organization to a grand success.



From Execom 2021:

"We would like to thank HOD ma'am, Jayasudha ma'am, Santosh sir and all the staff execom of IEEE KSIT and the previous student execom for voting us in and entrusting us with this responsibility. We promise to adhere to all the rules and regulations set in place while ensuring all our fellow IEEE members enjoy and learn to the fullest. We also promise to give our best to make the IEEE KSIT Student branch excel to it's highest possible glory"



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