

IEEE STUDENT BRANCH ACTIVITIES REPORT 2023-2024

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI-60019

www.sathyabama.ac.in



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JEPPIAAR NAGAR, CHENNAI.600119

Preface

This annual report for the year 2023 is the outcome of the IEEE Student Branch, Sathyabama Institute of Science and Technology. The objective of the activities conducted by the student branch is to familiarize the students with the implementation of knowledge. The report is prepared based on the information gained during every programmes.

Branch Counsellor

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About IEEE

IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. IEEE and its members inspire a global community to innovate for a better tomorrow through its more than 423,000 members in over 160 countries, and its highly cited publications, conferences, technology standards, and professional and educational activities. IEEE is the trusted "voice" for engineering, computing, and technology information around the globe.

About SATHYABAMA IEEE SB

The inception of the IEEE Student Branch (IEEE SB) of Sathyabama Institute of Science and Technology (Deemed to be University) was in the month of September 1991. Throughout the years, it is an active and vibrant branch. Every year the branch is added up with active student members who play a major role in building up the branch and keeping it active. The branch was started with 21 members and at the end of 1999 it had 375 members. As an add-on, the branch is awarded as the 5th largest branch in the world, 2nd largest in the Asia Pacific region and again received largest membership in the year 2012 and 2013. In addition, the branch has received certificate of appreciation for organizing activities towards advancement of IEEE and Engineering professions. IEEE student branch consistently organizes technical events like workshops, hands on training and special lectures in cutting edge technologies. Students expand their knowledge by attending these events of advanced technologies.

Vision

- To enable, empower and energize the student members to enhance their technological interests and motivate them to excel in technical skills
- To provide a platform for student members to improvise them in various managerial and technical qualities

Mission

- To create an awareness among students about benefits of IEEE
- To organize technical awareness programmes
- To organize skill development programmes
- To form technical groups and motivate the student members to develop projects useful for the community
- To organize regular events like workshops, technical symposiums and contests
- To encourage student members to achieve more awards sponsored by IEEE

IEEE SB Executive Committee 2023-2024

Selection Procedure and Guidelines

The circular for IEEE SB Executive Committee Selection Interview for the year 2023 was sent on 04.01.2023 to all the fourth and third-year students of School of Computing (CSE and IT) and School of Electrical and Electronics Engineering (ECE and EEE) through Deans of schools/ Heads of the Departments/ Class Counsellors. The interested students were asked to register with their basic information and biodata on or before 18.01.2023. 67 students were shortlisted based on their skills and interests from the 135 registered candidates were called for the direct interview on 30.01.2023 and 31.01.2023. Direct interview was conducted by IEEE SB counselor and staff coordinators. The evaluation report was made based on students' elegance, perspective, communication, interactive and leadership skills. The following executive committee with 15 students was selected from the direct interview based on the evaluation report for the year 2023. This executive committee will be active till the end of this year.

IEEE SB STUDENT ACTIVITIES

The new executive committee was introduced on 03.02.2023 and their roles and responsibilities were described. IEEE SB regularly meets fortnightly with executive committee, staff coordinators and branch counselor. Meetings were conducted with the agenda of conducting IEEE awareness programmes to first year to third year students of School of Computing and School of Electrical and Electronics Engineering in the month of June and July to enhance the membership development. The next agenda was to organize the activities to develop the technical skills of students. The activities like workshops and technical talks by experts were conducted. The next agenda was to bring out the leadership skills of executive committee. The consolidated list and details of the activities were given below.

S.NO	DATE	TITLE OF THE PROGRAMME
1	03.07.2023	Posterolic
2	11.08.2023	TECHJAM(JustAMinute)
3	08.08.2023, 12.08.2023, 18.08.2023	CodeQuest
4	17.08.2023 to 18.08.2023	Perlustrate Hands on Workshop on AI/ML
5	18.08.2023	Guest talk on Next Gen AI
6	22.08.2023	Speakout spectrum series

S.NO	DATE	TITLE OF THE PROGRAMME
7	23.08.2023	Empower360
8	30.08.2023	Speakout spectrum series
9	25.10.2023	Guest talk on Hitech Hydroponics
10	07.03.2024	Doozy Boot
11	08.03.2024	Sheleads
12	11.03.2024	Guest talk on core company essentials
13	13.03.2024	Grow with IEEE
14	03.04.2024 to 04.04.2024	Silicon 24
15	02.05.2024	Unscramble Circuit

POSTEROLIC -POSTER MAKING CONTEST

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University)
Accredited with Grade A++ by NAAC | 12B status by UGC | Approved by AICTE

IEEE Student Branch
SCHOOL OF COMPUTING
Department of Computer Science and Engineering
Organizes

POSTEROLIC
A Poster making contest to unleash your creativity
Date : 03.07.2023

Round 1:(Online)

- Smart India
- Deforestation
- Women in India
- Negative impact of mobile phones
- Secularism
- Child Labour
- Covid Heroes
- Democracy

Round 2:(Offline)

Technical Theme
Themes will be given on the spot
12.15 pm to 3.00 pm

The deadline to submit posters for Round 1 is 29.06.2023
Maximum of two members are allowed per team.

Register at : <https://forms.gle/ZxWPN7bs9Cz5o6cs5>

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Dr. M. S. Gowen Prem, IEEE SB Counsellor

Co Convenors
Dr. S. Prayla Shriv, Professor, Dept. of CSE
Dr. Jothila Grace L. K., Associate Professor, Dept. of CSE

Student Co-ordinators
Ms. Yuthika P., IV year B.E. CSE-AI
Ms. Sambrani Sravanti, III year B.E. CSE
Ms. Sapna Bhardwaj, III year B.E. CSE
Ms. Dhivya, III year B.E. CSE
Ms. Nandana Vishwanath V.M., IV year B.E. CSE-AI

E-Certificate will be provided to all the participants and exciting prizes are waiting for the winners !!

The Intercollege "POSTEROLIC" event was conducted by IEEE student Branch of Sathyabama university. It aimed to foster creativity, encourage artistic expression, and provide a platform for students to showcase their design skills. The event witnessed enthusiastic participation from students representing different disciplines and backgrounds. Nearly 190 teams from various college participated in the 1st Round of this event in online. Finally top 10 teams were invited for the final round. The event kicked off with an opening ceremony, where organizers welcomed the participants and explained the rules and guidelines.

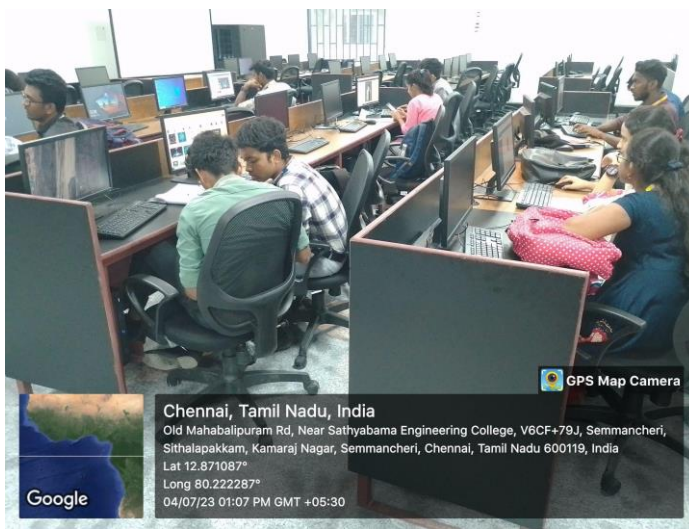
A theme was announced for the posters, which challenged the students to think critically and creatively. The theme was carefully chosen to address a relevant social and technical issue fostering awareness and promoting meaningful discussions.



Throughout the day, participants were given access to a dedicated workspace, and ample time to bring their ideas to life. The atmosphere was charged with energy as students immersed themselves in brainstorming, and designing their posters. A panel of esteemed judges, evaluated the posters based on creativity, visual impact, message clarity, and adherence to the theme. The judging process was rigorous, ensuring fairness and impartiality.

As the event progressed, students eagerly presented their finished posters. Each artwork conveyed a unique perspective, addressing the theme with originality and thoughtfulness. The diversity of styles, techniques, and artistic approaches showcased the breadth of talent among the participants.

Students had the opportunity to learn from experienced professionals, gain valuable insights into the world of design, and expand their knowledge and skills. The event concluded with a closing ceremony, where the winners were announced by the Head of the School of Computing Dr Lakshmanan sir, He awarded trophies for their outstanding posters. The top entries received recognition, certificates, and prizes as a token of appreciation for their exceptional work. The event organizers expressed their gratitude to all participants and supporters for making the event a resounding success. Overall, the intercollege posterolic event provided a platform for students to showcase their artistic abilities, fostered creativity, and promoted awareness of important issues.



It created an inclusive environment that encouraged collaboration, learning, and personal growth. The event will be remembered as a significant milestone in the artistic journey of the participants, leaving a lasting impact on their creative pursuits.

Topic	Posterolic-Poster making contest
Date(s) & Time	03.07.2023 & 12.15PM to 03.00PM
No. of Participants	15
Nature of participants	Students
Venue	Web 3 Lab St.Paul's block
Student Coordinators	Ms. Yuthika.P, Ms. Sambrani Sravanthi, Ms. Sapna Bhardwaj, Ms. Dhivya, Ms. Nandana Vishwanath

TECH JAM (JUST A MINUTE)



The Technical JAM (Just-A-Minute) event was an exhilarating showcase of quick thinking, technical knowledge, and effective communication. Participants from diverse technical backgrounds came together to share their expertise, insights, and passion in a fast-paced and engaging competition. The Technical JAM aimed to provide a platform for participants to showcase their technical knowledge and communication prowess in a concise and engaging manner.

The event fostered networking opportunities among participants, allowing them to connect with like-minded individuals and potential mentors from various technical fields. By encouraging participants to speak confidently and clearly, the event aimed to enhance their public speaking and communication skills. Both participants and attendees gained insights into diverse technical topics through the presentations, debates, and discussions.



In the first round, 41 participants were challenged to deliver impromptu one-minute technical talks on a given topic. From artificial intelligence and blockchain to cybersecurity and quantum computing, a wide spectrum of subjects was covered. Contestants demonstrated their ability to think on their feet and present complex ideas succinctly. We selected 10 students for the next round.

The second round pitted participants against each other in a series of technical debates. These debates showcased the contestants' logical reasoning, persuasive skills, and their ability to construct well-structured arguments in just a minute.

The Technical JAM event was a resounding success, providing an engaging platform for participants to share their technical expertise and passion. It highlighted the importance of effective communication in the world of technology and celebrated the diverse knowledge within the technical community.



The event left participants inspired, informed, and eager to continue their technical journeys. Due to the positive response, we plan to organize similar events in the future.

Topic	TECH JAM (just a minute)
Date(s) & Time	11.08.2023 & 01.00PM to 02.00PM
No. of Participants	10
Nature of participants	Students
Venue	Hall 403, St. Paul's block
Student Coordinators	Mr. Aryan Shukla, Mr. Shubhank Gupta, Ms. Sruthi B, Ms. Arin Verma, Ms. Dhivya G

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IEEE Student Branch
SCHOOL OF COMPUTING
Department of Computer Science and Engineering

Organises

CODE QUEST

Where brilliance meets the keyboard, and innovation writes the future!

EVENT DETAILS:

Registration Deadline	Prototype Submission Deadline	Final Round
8th Aug 2023	12th Aug 2023	18th Aug 2023

Timings: 9:00 am to 4:30 pm

* Registration Fee - Applicable for participants selected for Round 2 *

GOODIES FOR THE WINNERS

PARTICIPATION CERTIFICATE FOR ALL

Student Coordinators
Saameer Srivastav, III year B.E., CSE
Sama Raghavji, III year B.E., CSE
Sandesh, III year B.E., CSE

Domains

Coding

- Ed-tech
- FinTech
- Cybersecurity
- Auto-Tech
- Machine Learning
- IOT

Product Building

- Gift based food and landscape risk assessment fully aware.
- Developing a product that manages sustainable practices and reduces the environmental impact in areas such as waste reduction, energy efficiency or sustainable transportation.
- Air-Awareness system: Time table generator.
- Anonymous drive delivery system.
- Blockchain Based Voting System for Secure and Transparent Elections

RULES:

- There will be 2 rounds, Round 1 in online and Round 2 in offline.
- Eligibility : 3rd and 4th year Students
- Each team can consist a maximum of 4 members and minimum of 1 member.
- The participants will have to select any one of the given domains and find an innovative problem statement to develop into a prototype.
- The working prototype and ppt should be submitted on or before 12th Aug 2023.
- The teams selected for round 2 will be informed 2 days after submitting their prototype.
- The selected teams have to pay the registration fee, Rs. 150 (Non-IIEEE members) and Rs.100 (IIEEE members).
- On the day of the final event, the selected teams will have to complete building their products.
- Emphasizing that plagiarism, copying, or using pre-existing code without proper attribution is strictly prohibited.


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Dr. Jashita Grace, Asst. Professor, Dept. of CSE

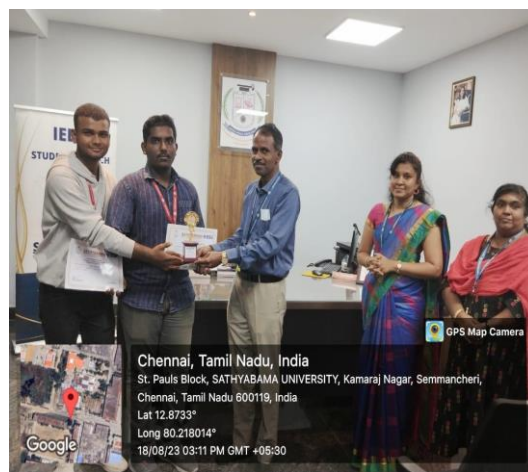
For any queries , please contact
Sanya : 8778995564
Sanjay : 8391128805

A photograph showing a group of students in a computer lab. In the foreground, three students (two men and one woman) are seated at a desk, looking at a computer monitor. In the background, two more students are standing and talking. The room has wooden paneling and large windows.

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boundaries and bring a change with their solutions. Code Quest seeks to promote teamwork by allowing participants with diverse skills to come together and collaborate on projects.

This event serves as a learning opportunity for participants to enhance their technical skills, from coding and software development to project management and presentation. During the opening phase of the competition, participants engaged in the prototype submission round. Here, they were presented with the challenge of selecting a domain closely aligned with their interests and expertise. Their task was to construct a functional prototype that embodied their project's core concept. This round encouraged contestants to showcase their innovative thinking, technical prowess, and ability to translate ideas into tangible solutions.



In the following round, participants transitioned from prototypes to developing fully functional projects. This stage involved transforming their initial prototypes into comprehensive, operational solutions.

The Code Quest coding contest was a big hit, giving participants an exciting stage to show off their coding abilities and passion. It highlighted how important it is to communicate well in the tech world and celebrated the wide range of knowledge within the coding community. Those who took part felt motivated, learned a lot, and are now eager to keep exploring their coding interests.

Topic	CODE QUEST
Date(s) & Time	08.08.2023, 12.08.2023, 18.08.2023 & 09.00AM to 04.30PM
No. of Participants	8
Nature of participants	Students
Venue	AI & ML Lab (old CSE department)
Student Coordinators	Ms. Sambrani Sravanthi, Ms. Sapna Bhardwaj, Mr. Sandesh

PERLUSTRATE HANDS ON WORKSHOP ON AI/ML

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IEEE STUDENT BRANCH
SCHOOL OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ORGANIZING
PERLUSTRATE HANDS ON
MACHINE LEARNING

DAY 1
WHY ML?
ML - BASIC CONCEPTS
ESSENTIAL MATH FOR ML
ML ALGORITHMS

DAY 2
DATA IN ML
LEARNING & UNDERSTANDING DATA
HANDS ON REAL WORLD APPLICATION
ML & IT'S FUTURE

10AM-12PM
17 AUG & 18 AUG
THURSDAY & FRIDAY

SCAN ME

RESOURCE PERSON
PERCY PAULIN J, M.E.

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Dr. T. Sasikala, Dean, School of Computing
Dr. L. Lakshmanan, Head, Dept. of CSE
Dr S Vigneshwari, Head, Dept. of CSE

Student Co-ordinators
Mr. Aryan Shukla, 3rd year, CSE
Mr. Arush Bhagi, 3rd year, CSE
Mr. Ashutosh Sharma, 3rd year, CSE
Ms. Dhivya G. 3rd year, CSE

The AIML Workshop conducted by the IEEE Student branch aimed to provide participants with an in-depth understanding of Artificial Intelligence and Machine Learning concepts, applications, and practical implementation. The workshop was taken by MS PERCY PAULIN.



The workshop received an overwhelming response from enthusiastic students, So the first 40 student registrations were shortlisted for attending the workshop. MS PERCY PAULIN delivered an engaging overview of AI and ML, covering basic concepts and their significance in today's world.

Participants were guided through practical coding exercises using popular AI and ML libraries, such as TensorFlow and Scikit-learn. Real-world case studies were presented to showcase how AI and ML are transforming industries like healthcare, finance, and more. Participants collaborated on projects, applying AI and ML techniques to solve specific problems. Ample time was dedicated to interactive discussions, allowing participants to clarify doubts and share ideas.

Participants gained a strong foundational knowledge of AI and ML concepts. Hands-on coding experience enhanced participants' practical skills. Attendees learned about real-world applications and potential career paths in AI and ML. Networking opportunities



allowed participants to connect with experts and fellow learners. Due to the positive response, we plan to organize similar workshops in the future, focusing on advanced AI and ML topics.

Topic	Perlustrate hands on workshop on AI/ML
Date(s) & Time	17.08.2023, 18.08.2023 & 10.00AM to 12.00PM
No. of Participants	8 TEAMS
Nature of participants	Students
Venue	Hall 404, St. Paul's block
Student Coordinators	Mr. Aryan Shukla, Mr. Arush Bhagi, Mr. Ashutosh Sharma, Ms. Dhivya G

GUEST TALK ON NEXT GEN AI

**SATHYABAMA**
INSTITUTE OF SCIENCE AND TECHNOLOGY
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IEEE STUDENT BRANCH
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ORGANIZES

GUEST TALK ON
NEXT GEN AI
UNLEASHING THE POWER OF LLM'S

**DATE**
FRIDAY 18 AUGUST 2023

**TIME**
10AM TO 11AM



SPEAKER
Mr. Earnest Paul
R&D ENGINEER
VALGENESIS INDIA

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Dr Mathan N, Asst. Prof., Dept. of ECE
Ms Shamini G I, Asst. Prof., Dept. of ECE

Student Organizers
Ms. N Harshitha, IV ECE
Ms. Srinithi S, III ECE

The IEEE event on "Next-Gen AI: Unleashing the Power of LLMs" was organised by the IEEE students of Sathyabama institute of science and technology, The event was leaded by Mr. Earnest Paul. This Next-Gen AI promises an enriching experience for participants eager to delve into the cutting-edge advancements in artificial intelligence. The focal point of the event is a compelling guest talk that aims to unravel the potential and



intricacies of Large Language Models (LLMs). Attendees can anticipate an insightful exploration of how these sophisticated AI models are reshaping the landscape of natural language processing, machine learning, and cognitive computing. The distinguished speaker will likely delve into real-world

applications, showcasing how LLMs are revolutionizing industries and influencing the development of innovative solutions.

The event is an exceptional opportunity for participants to gain a deeper understanding of the latest trends in AI, offering a glimpse into the future of intelligent systems. Additionally, it provides a platform for networking and engaging in discussions with experts, fostering a collaborative environment where ideas and insights can be exchanged. For enthusiasts, professionals, and researchers alike, this IEEE event promises to be a gateway to the forefront of AI innovation, offering valuable perspectives on the unleashed power of LLMs and their transformative impact on the next generation of artificial intelligence. In addition to the immediate advantages, the IEEE event on "Next-Gen AI: Unleashing the Power of LLMs" offers attendees several long-term benefits. One such advantage is the potential for professional development, as participants can glean practical insights and best practices directly applicable to their careers.

Furthermore, the event serves as a knowledge-sharing platform, allowing attendees to stay ahead of the curve in the rapidly evolving field of artificial intelligence. The insights gained from the guest talk could inspire ongoing research projects, innovative solutions, or even spark collaborations among participants interested in exploring the full scope of LLM capabilities. This not only contributes to individual growth but also fosters a sense of community and collaboration within the broader IEEE network.



For students, the event represents an invaluable educational opportunity. Exposure to real-world applications of LLMs can deepen their understanding of AI concepts taught in academic settings, potentially influencing the direction of their studies and future research interests. The event



include discussions on chatGPT, Googlebard.ai, and also how integrating LLMs into workflows can enhance productivity and efficiency, providing tangible takeaways for professionals seeking to implement these technologies in their respective fields.

Topic	Guest talk on Next Gen AI
Date(s) & Time	18.08.2023 & 10.00AM to 11.00AM
Resource Person	Mr. Earnest Paul, R&D Engineer, VALGENESIS INDIA
No. of Participants	160
Nature of participants	Students
Student Coordinators	Ms. Harshitha N, Ms. Srinithi S

SPEAKOUT SPECTRUM SERIES

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
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IEEE

IEEE STUDENT BRANCH
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ORGANIZES
IEEE SPECTRUM SERIES

SPEAKOUT SPECTRUM

22.08.2023

Ms. DEVADHARSHINI
ECE, IV YEAR
Topic: Advice on Chatgpt

Mr. VASANTH.R
ECE, IV YEAR
Topic: AI generated software

Ms. HARSHITHA.N
ECE, IV YEAR
Topic: Nanocameras

VENUE: LECTURE HALL 2

TIME
11AM TO 12PM

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Ms. Kokila, III ECE
Ms. Srinithi S, III ECE

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IEEE SB Counsellor

Co-Conveners
Dr. Mathan N, Asst. Prof., Dept. of ECE
Ms. Shamini G I, Asst. Prof., Dept. of ECE



The IEEE SpeakOut Spectrum Series conducted by the students of ECE Dept. from Sathyabama institute of science and technology, a beacon of collaboration and knowledge-sharing within the technological realm, unfolds as a comprehensive platform for participants, speakers, and

organizers alike. This documentation serves as a compass, guiding individuals through the intricacies of the series, outlining its overarching objectives and providing valuable insights into the thematic richness that each event promises.

With an overarching goal to foster inclusivity and diversity, the series invites professionals, researchers, and students to engage in a dynamic exchange of ideas, explore emerging technologies, and contribute to the diverse spectrum of perspectives within the IEEE community.



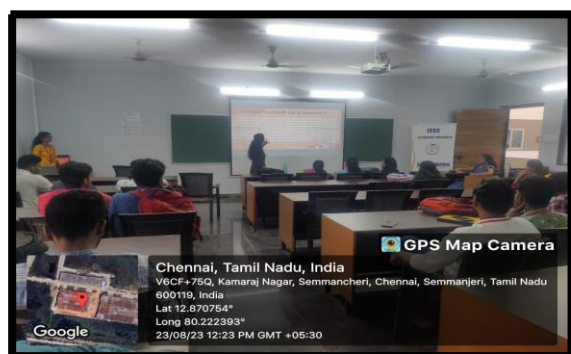
In this event Ms. Devadharshini enlightened by “advicing on chatGPT”, Mr. Vasanth.R continued with the “AI generated software” topic then Ms. Harshitha concluded with “Nanocameras” information. Comprising carefully curated events, the series encapsulates keynote presentations, panel discussions, interactive workshops, and student presentations, each designed to offer a unique vantage point into the multifaceted world of technology.

Topic	Speakout spectrum
Date(s) & Time	22.08.2023 & 11.00AM to 12.00PM
Resource Person	Ms. Devadharshini, Mr. Vasanth R, Ms. Harshitha N
No. of Participants	150
Nature of participants	Students
Venue	Lecture Hall 2
Student Coordinators	Ms. Kokila, Ms. Srinithi S

EMPOWER 360



Empowering workshop is dedicated to enhancing leadership and Networking skills. In our rapidly evolving world, the ability to lead effectively and establish meaningful connections is more crucial than ever. Today, we will delve into the heart of leadership and networking, Exploring the strategies and insights that can drive your success. This event gives us an insight on networking and leadership skills. The primary objective of empower360 is dedicated to enhancing your leadership and networking skills.



In this session we also conducted a quiz based on general knowledge that made the students interactive. The event aims to inspire participants to think outside the box, push boundaries and bring a change with their solutions. EMPOWER360 seeks to promote teamwork by allowing participants

with diverse skills to come together. This event serves as a learning opportunity for participants to enhance their leadership skills and networking skills.

Leadership is not just about holding a title, it is about inspiring, guiding and empowering those around you. Whether you are leading a team, a project, or even just yourself, understanding your leadership style, honing your decision-making abilities, and fostering a positive work environment are key. At its core, leadership is about leading by example, setting a vision, and encouraging others to bring out their best. It is about embracing challenges as opportunities and understanding that growth often arises from stepping out of your comfort zone.

Networking is more than just exchanging business cards; it is about building meaningful relationships that can open doors and create synergies. The connections you form can lead to collaborations, mentorships, and even lifelong friendships. Remember, networking is a two-way street; it is about giving as much as it is about receiving. Effective networking involves active listening, genuine interest in others' stories and finding common ground. It is about nurturing connections beyond the initial introduction, staying in touch, and providing value to your network whenever possible.

Empower360 leads you in today's journey of self-improvement and professional growth. Gratitude is when memory is stored in the heart not in the mind. The networking and leadership are not just topics to be discussed but skills to be nurtured and refined. As we have here today, we learned and the inspiration we have gained applying them to our personal and professional journey.



Topic	EMPOWER360
Date(s) & Time	23.08.2023 & 11.00AM to 12.00PM
No. of Participants	31
Nature of participants	Students
Venue	St. Paul's block room no:404 (ground floor)
Student Coordinators	Ms. Indhuja V, Ms. Mavya Saripudi, Ms. Polu Sandhya Rani

SPEAKOUT SPECTRUM SERIES

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ORGANIZES
IEEE SPECTRUM SERIES
SPEAKOUT SPECTRUM
30.08.2023

Ms. SUDIKSHA M R
III YEAR ECE
Topic: *Very First Transistor*

Ms. ANUSHA CHEGONI
IV YEAR ECE
Topic: *Myths of Modern Technology*

Ms. M ABHIGNA
III YEAR ECE
Topic: *Lithium Batteries*

VENUE: LECTURE HALL 2
11AM TO 12PM

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Co-Conveners
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Ms. Shamini G I, AP, ECE

Student Organizers
Ms. Sudiksha, III ECE
Ms. Kokila, III ECE



IEEE Student Branch arranged an IEEE SpeakOut Spectrum Series for the Department of Electronics and Communication Engineering's second-year and third-year students on 30th August 2023. As testament to the series commitment to knowledge exchange, inclusivity, and collaborative exploration, promising an

immersive and enlightening experience for all participants. Within the IEEE SpeakOut Spectrum Series, the engagement of students in presenting captivating topics contributes a dynamic layer to the discourse. With the help of the knowledge gained through this series event, students will delve into a spectrum of intriguing subjects, offering fresh insights and perspectives.

Ms. Sudiksha presentation explored the groundbreaking invention of the transistor, providing a historical journey into the origins of this transformative technology. By delving into the very first transistor, attendees will gain an appreciation for the pivotal moment that sparked the digital revolution, laying the foundation for the intricate technological landscape we navigate today. This presentation promises to unravel the intricacies of early transistor technology, highlighting its profound impact on the evolution of electronic devices and communication systems.

The presentation shifts focus to the captivating theme of "Myths of Modern Technology" by Ms. Anusha Chegoni. In a world inundated with technological marvels, this presentation aims to debunk common misconceptions, separating fact from fiction. Attendees can anticipate a critical examination of prevalent myths surrounding cutting-edge technologies, fostering a deeper



understanding of the realities and potentials that underpin our modern digital age. This exploration is not only intellectually stimulating but also serves as a reminder of the importance of informed perspectives in navigating the complex technological landscape.

At last Ms. Abhigna presentation delves into the fascinating realm of lithium batteries, exploring the intricate science and engineering behind these ubiquitous power sources. As lithium batteries continue to power an array of devices, from smartphones to electric vehicles, this presentation aims to demystify the technology. Attendees will gain insights into the mechanisms driving lithium batteries, the challenges they pose, and the ongoing innovations in this field. This presentation provides a unique opportunity to bridge the knowledge gap, fostering a greater

understanding of the critical role lithium batteries play in shaping the future of energy storage.

Incorporating student presentations on these diverse yet interconnected topics adds a layer of vibrancy to the IEEE SpeakOut Spectrum Series, ensuring a well-rounded exploration of technology's past, present, and future. The series embraces the curiosity and ingenuity of students, underscoring the importance of their contributions in shaping the ongoing narrative of technological progress.



Topic	Speakout spectrum
Date(s) & Time	30.08.2023 & 11.00AM to 12.00PM
Resource Person	Ms. Sudiksha M R, Ms. Anusha Chegoni, Ms. M Abhigna
No. of Participants	175
Nature of participants	Students
Venue	Lecture Hall 2
Student Coordinators	Ms. Sudiksha, Ms Kokila

GUEST TALK ON HITECH HYDROPONICS

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

IEEE

IEEE STUDENT BRANCH
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ORGANIZES

GUEST TALK ON
Hitech Hydroponics

DATE
WEDNESDAY 25 OCT 2023

TIME
2.15PM TO 3.15PM

VENUE
IRC AUDITORIUM

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Dr. Mathan N, Asst. Prof., Dept. of ECE
Ms. Shamini G I, Asst Prof., Dept. of ECE

Student Organizers
Ms. N Harshitha, IV ECE
Mr. Gukan N, I ECE
Ms. Nitheesha K, I ECE

Dr. Lakshmanan Chandran
Director, Greenzy
Coimbatore

The event was graced by Dr. Lakshmanan Chandran, an expert at the forefront of agricultural innovation Director of Greenzy, Coimbatore. It was for the students with a keen interest in agri-tech, or someone simply curious about the cutting-edge advancements in farming practices, this talk was to unravel the transformative journey of hydroponics into the realm of high technology. This commences with a comprehensive introduction to hydroponics, elucidating the departure from traditional soil-based methods and laying the groundwork for the integration of sophisticated technologies. This will embark on a fascinating journey through the latest trends in hi-tech hydroponics, exploring the symbiosis between agriculture and state-of-the-art engineering solutions. From the incorporation of IoT and AI to

sensor-based systems and precision agriculture techniques, the speaker will navigate the intricate web of technologies revolutionizing crop cultivation.



One of the focal points of the discussion was the emergence of smart greenhouses, where automation, climate control, and data analytics converge to create optimal growing conditions. Students can also get to know about the insights into the environmental sustainability aspect of hi-tech hydroponics, emphasizing its potential to reduce water consumption, minimize the use of pesticides, and enable year-round cultivation.



Furthermore, this talk showcased the real-world applications through case studies and success stories, providing tangible examples of how hi-tech hydroponics is being successfully implemented across various settings. The session was punctuated by a dedicated Q&A segment, offering students the unique opportunity to directly engage with the speaker, delve deeper into specific topics, and gain personalized insights.

This IEEE Guest Talk on Hi-Tech Hydroponics is an immersive journey into the future of agriculture. Students will leave armed with a profound understanding of how technology is reshaping the very foundations of farming practices.



Topic	Guest Talk on Hi-Tech Hydroponics
Date(s) & Time	25.10.2023 & 02.015PM to 03.15PM
Resource Person	Ms. Sudiksha M R, Ms. Anusha Chegoni, Ms. M Abhigna
No. of Participants	180
Nature of participants	Students
Venue	IRC Auditorium
Student Coordinators	Ms. N Harshitha, Mr. Gukan, Ms. Nitheesha K

DOOZY BOOT





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IEEE STUDENT BRANCH
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ORGANIZES
COMMEMORATING WOMEN'S DAY 2024


DOOZY BOOT

- Test your memory and speed in our technical puzzle game!
- Decipher jumbled images and rearrange them to reveal the answers before time runs out

**DATE**
THU 7TH MARCH 2024

**TIME**
1PM TO 3PM

**LOCATION**
CDAC LAB, ECE II FLOOR

**REGISTER @**
https://bit.ly/ieee_db24

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Dean, School of EE
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Dr. M S Godwin Premi,
Professor, Dept. of ECE
IEEE SB Counsellor

Co-Conveners
Ms Shamini G I, Dept. of ECE
Dr Mathan N, Dept. of ECE

Student Organizers
Ms. Srinithi S, III ECE
Ms.Yuvashree, III ECE

CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

This event was conducted on International women's day 2024 by IEEE Student Branch On the eve of International Women's Day, the IEEE Student Branch organized a groundbreaking event, the "Doozy Boot," aimed at celebrating the achievements of women in technology while fostering an inclusive environment for both technical and non-technical enthusiasts. Held on March 7th, the event served as a platform for collaboration, learning, and empowerment. Aiming to foster critical thinking, collaboration, and healthy competition among participants while engaging the audience in an interactive and educational experience. Featuring a dynamic format



encompassing preliminary, rapid-fire, Memory game, Jumbled letters and connections, the event traversed diverse topics including electronic, literature, technical and general knowledge. Through rigorous testing of participants' knowledge, problem-solving skills, and ability to think on their feet, the Quiz not only showcased intellectual prowess but also cultivated a spirit of camaraderie and sportsmanship.

Topic	Doozy boot
Date(s) & Time	07.03.2024 & 1pm to 3pm
No. of Participants	50
Nature of participants	Students
Venue	Techetronics lab
Student Coordinators	Ms.Yuvashree M & Ms.Srinithi

SheLeads Tech



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ORGANIZES
COMMEMORATING WOMEN'S DAY 2024

SheLeads Tech

- Unleash your inner leader at SheLeads Tech!
- Compete in this exciting event, showcasing teamwork, leadership and presentation skills.

08 MARCH 2024
10:00AM TO 12:30PM
CDAC Lab ECE II FLOOR
Register @ <https://bit.ly/ieeecedce24>

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Mr. J Arul Selvan, Vice President
Ms. Maria Bernadette Tamilarasi, Vice President
Ms. Maria Catherine Jayapriya, Vice President

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Dr N M Nandhitha, Dean, School of ECE
Dr T Ravi, Head, Dept. of ECE

Convener
Dr. M S Godwin Premi, Professor, Dept. of ECE
IEEE SB Counsellor
Co-Conveners
Dr Mathan N, Dept. of ECE
Ms Shamini G I, Dept. of ECE

Student Organizers
Ms.M.R.Sudiksha, III ECE
Ms.M.Abhigna, III ECE

CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS



On International Women's Day, the IEEE Student Branch of Electrical and Communication Department organized a groundbreaking event titled "SheLeads Tech" on March 8th, 2024. This innovative event aimed to empower women in technology by providing them with a platform to tackle complex problem statements using

analytical and innovative approaches. Through collaboration, creativity, and analytical thinking, participants engaged in addressing real-world challenges, thereby

contributing to the advancement of technology and fostering gender diversity in the tech industry. The event fostered a sense of community and collaboration among participants, nurturing professional relationships and inspiring future collaborations. There were totally two rounds, emerging the participants to write their solution for assigned problem limited to 200-300 words as of round one, therefore second round dealt with a small talk on their solution for their problem statement. Dr. Mathan's involvement as a judge at SheLeads Tech amplified the event's impact, empowering participants and advocating for gender diversity in the tech industry. His expertise and insights added credibility to the evaluation process, ensuring that solutions were rigorously assessed for their analytical rigor, feasibility, and potential impact.

Topic	SheLeads Tech
Date(s) & Time	08.03.2024 & 10am to 12pm
No. of Participants	43
Nature of participants	Students
Venue	CDAC lab
Student Coordinators	Ms.M.R.Sudiksha & Ms.Abhigna

Guest talk on core company essentials

The poster is for an event organized by the IEEE Student Branch at Sathyabama Institute of Science and Technology. It features a circular portrait of Ms. Lahari Katukoori, a Firmware Engineer at Schneider Electric Bangalore. The event is a guest talk on 'Core Company Essentials' scheduled for 11 March 2024 from 05:30 PM to 6:30 PM. A Zoom link is provided for registration. The poster also lists the names and titles of the Chief Patrons, Patrons, Convener, Co-Conveners, and Student Organizers.

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GUEST TALK ON
CORE COMPANY ESSENTIALS

"Embark on a journey into the exciting universe of VLSI design with our special guest talk! This poster invites students to explore the basics and future trends of VLSI for core companies."

JOIN US ON ZOOM

Register @
<https://bit.ly/ieeccc24>

Ms. Lahari Katukoori
Firmware Engineer
Schneider Electric
Bangalore

11 MARCH 2024
05:30PM TO 6:30PM

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Co-Conveners
Dr Mathan N, AP
Dept. of ECE
Ms Shamini G I, AP
Dept. of ECE

Student Organizers
Ms.M.R.Sudiksha, III ECE
Ms.Yuvasree, III ECE

e-Certificates will be provided to all Participants

In an era of virtual connectivity, Lahari Katukoori's online session on core company essentials, hosted by the IEEE Student Branch, stood as a beacon of guidance for aspiring professionals navigating the tech industry. Through the digital medium, Lahari shared her expertise and experience, offering invaluable insights and practical advice to attendees eager to embark on their career journeys. Attendees expressed appreciation for Lahari's insights and engaging presentation style, which fostered a sense of connection and camaraderie despite the digital distance.

The infographic titled 'Core Company Essentials' lists eight key points for attendees to prepare for the session:

1. Be thorough with basics of electronics
2. Have a clear understanding of communication protocols
3. Perfect knowledge of atleast one programming language
4. Prepare all the topics mentioned in the Resume
5. Have an idea of emerging trends in technical field
6. Be prepared with all the questions that can be asked about your Project
7. Question about your job roles & responsibilities
8. Play with free online tools for circuit design, simulation etc to get a practical exposure

Many participants left the session feeling motivated and equipped with actionable strategies to navigate the complexities of core companies and thrive in their careers. It was actively conducted on 11th March 2024 at 5:30 pm to 6:30 pm. Lahari provided invaluable insights and practical advice to attendees eager to delve into the intricacies of FPGA technology equipping them with the knowledge and confidence to embark on their journey as FPGA developers. Attendees expressed gratitude for Lahari's comprehensive coverage of FPGA fundamentals, design methodologies, and industry trends, which provided them with a solid foundation to pursue further exploration and specialization in the field. Many participants left the session feeling inspired and motivated to leverage FPGA technology to address real-world challenges and contribute to technological innovation.

Topic	Guest Talk on Core company essentials
Date(s) & Time	11.03.2024 & 5:30PM to 6:30PM
Resource Person	Ms. Lahari katukoori
No. of Participants	70
Nature of participants	Students
Venue	Online
Student Coordinators	Ms. M.R.Sudiksha, Ms. M . Yuvashree

Grow with IEEE



Within the IEEE Student Branch community, the ethos of "Grow with IEEE" takes on a special significance, representing a commitment to nurturing the professional growth and career development of its members. Through a variety of tailored initiatives, programs, and resources, IEEE Student Branches play a pivotal role in empowering tomorrow's innovators to navigate the complexities of the tech industry and realize their full potential. The career development initiatives conducted by IEEE Student Branches play a pivotal role in empowering students to chart their own paths to success in the tech industry. By providing networking opportunities, technical skill development programs, professional development initiatives, and industry engagement opportunities, IEEE Student Branches equip students with the tools, resources, and support needed to thrive in today's competitive job market. As students engage with these initiatives and "Grow with IEEE," they emerge as confident, capable, and empowered individuals ready to make meaningful contributions to the world of technology and innovation.

Topic	Grow with IEEE
Date(s) & Time	13.03.2024 & 10:00AM to 11:00AM
Resource Person	Ms. Sudiksha M.R & Ms.Harshitha D
No. of Participants	100
Nature of participants	Students
Venue	New Auditorium
Student Coordinators	Ms. M.R.Sudiksha, Ms. M . Yuvashree

SILICON 24



The poster for the SILICON 2K24 event is a vibrant blue and purple design. At the top left is the Sathyabama Institute of Science and Technology logo. The top center features the text 'SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY) Accredited with Grade "A++" by NAAC Category-1 University by UGC'. To the right is the IEEE logo. The main title 'SILICON 2K24' is in large, bold, white letters. Below it, the dates 'APRIL 3 & 4, 2024' are displayed. The event is organized by the IEEE Student Branch. A list of events is provided on both sides: MATMAC, ZAPSPEAK, TECHMASTER, TECHNOSHOW, DEBUG FIESTA, WEBSITE DESIGN RALLY on the left; and AR/VR, GAMING, EXPLORING AI, MEME CREATION, CODING CONTEST on the right. A registration fee section indicates ₹100 for IEEE members and ₹200 for non-members. Contact information for queries is provided at the bottom, including the email ieeesathyabama@sathyabama.ac.in and the registration link https://bit.ly/silicon_24. A 'Win Exciting Prizes' graphic is also present.

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IEEE STUDENT BRANCH
ORGANIZES
NATIONAL LEVEL TECHNICAL SYMPOSIUM

SILICON 2K24

APRIL 3 & 4, 2024

EVENTS

- MATMAC
- ZAPSPEAK
- TECHMASTER
- TECHNOSHOW
- DEBUG FIESTA
- WEBSITE DESIGN RALLY

Student Coordinators

Ms.Yuthika P, IV yr CSE	Ms.Sudiksha, III Yr ECE
Ms.Yuvashree M, II Yr ECE	Ms.Tanshi Kansal, III Yr CSE
Ms.Sravanthi, III Yr CSE	Ms.Srinithi S, III Yr ECE
Mr.Akash Antony, II Yr CSE	Ms.Dhivya, III Yr CSE

For queries contact:

Mr.Akash Antony, CSE - 93457 71772
Ms.Sudiksha M, ECE - 99493 01132
ieeesathyabama@sathyabama.ac.in

REGISTRATION FEE

IEEE Member - ₹ 100
Non-IEEE Member - ₹ 200

Register @
https://bit.ly/silicon_24

Win Exciting Prizes



IEEE student branch of Sathyabama Institute of Science and Technology successfully hosted "SILICON 2K24," a two-day national level technical symposium, on April 3rd and 4th. Students from various institutions came together to participate in this exciting event. The symposium commenced with a formal inaugural ceremony. Dr.

M.S.Godwin Premi, the IEEE student branch counselor, extended a warm welcome to the esteemed dignitaries and enthusiastic participants. Dr. G. Sundari, Director-Administration, shed light on the importance of student activities, while Dr. T. Sasipraba, the esteemed Vice

Chancellor, delivered a thought-provoking presidential address, setting the stage for two days of learning and technical exploration.

Dr. M.S.Godwin Premi, the branch counselor, welcomed the chief guest, Dr. S. Brindha, IEEE Student Branch Counselor and Professor from the ECE department of Sairam Engineering College. Dr. Brindha's inaugural address focused on the importance of quality and its connection to the Sustainable Development Goals (SDGs). Ms. Harshitha, Chair of the IEEE Student Branch, delivered a heartfelt vote of thanks. Following the inauguration, Dr. Brindha returned for a keynote session titled "Key Standards of IEEE." The first day then buzzed with activity as six exciting events unfolded: Matmac, Techmaster, Gaming, Website Design Rally, Zapspeak, and Exploring AI. With 232 participants from various institutions, the day was a resounding success.

Day 1 Event started with a thrilling quiz competition, "Techmaster," on April 3rd. This test of technical knowledge saw 39 individual participants battle it out across three rounds. Round 1 kicked off digitally in the VLSI Lab on the department's second floor. For rounds 2 and 3, the action shifted to the ground-floor boardroom, keeping the competition intense. Dr. Mathan N meticulously evaluated the participants' performances throughout the day, and by 2:30 PM, all were eager to hear the results and celebrate the winner.



Dept. of ECE second-floor CDAC lab hosted "Zapspeak," a dynamic event empowering students with communication skills on April 3, 2024. This exciting program offered a three-round platform for students to hone their public communication abilities through various tasks. Dr. Gopika, Scientist, evaluated

the student performances, and the well-deserved winner was declared during awards ceremony.

EEE Department's Power Electronics Lab buzzed with innovation on April 3rd at 11:15 AM during the "Matmac: MATLAB Mini Showcase." This event offered students a chance to explore their talents in pairs, discovering diverse projects in areas like AI/ML, signal processing, control systems, and image processing, all powered by MATLAB.



April 4th buzzed with five tech events: Debug Fiesta, AR/VR, Technoshow, Coding Contest, and Meme Creation.

Electronics enthusiasts, rejoice! The electrifying Circuit Showdown, a test of troubleshooting and circuit debugging skills, recently took place. Teams of two battled it out across three rounds, tackling a series of electronic puzzles that demanded both knowledge and creative problem-solving. The atmosphere crackled with focused energy as participants collaborated to identify and fix malfunctions in the circuits. The winners were revealed at a thrilling awards ceremony.

A buzzing tech showcase, "Technoshow," in ECE ground-floor electronics circuits lab on April 4th. It was a morning of innovation, with students participating in both teams and individually. Their projects, brimming with creativity, tackled various themes related to the Sustainable Development Goals (SDGs). Dr. Preethi, the



esteemed external judge, witnessed the students' presentations and meticulously evaluated each team's performance.



The Silicon2k24 Coding Contest featured three rounds of intense competition. Round 1 tested participants on basic Data Structures and Algorithms (DSA) coding skills. Round 2 presented scenario-based coding challenges, requiring contestants to apply their problem-solving abilities in real-world contexts. Finally, Round 3 focused on code debugging, evaluating participants' proficiency in identifying and rectifying errors in provided code snippets. attracting a diverse array of students from esteemed institutions

such as St Joseph's Institute of Technology, Sri Sairam Institute of Technology, Saveetha Engineering college and Sathyabama Institute of Science and Technology. A total of 20 teams, fervently competed, showcasing their coding skills.

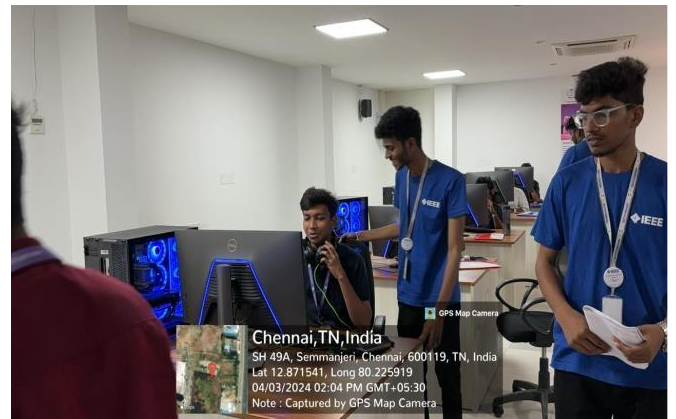
The Silicon 2K24 AR VR Event held on April 4th, 2024, brought together 24 participants for an exciting project exhibition. Hosted in the Advanced Studies Block's second-floor venue, this event showcased the innovative use of Augmented Reality (AR) and Virtual Reality (VR) technology. Participants were tasked with rendering objects within a maze using AR and VR tools, pushing the boundaries of creativity and technical skill.





The Website Design Rally was a huge success, with participants showcasing their creativity by designing websites on themes like food apps, e-commerce, and travel. The event not only provided a platform for skill development but also encouraged collaboration among participants. It was a great opportunity for networking, and everyone had a fantastic learning experience, gaining practical insights into web design.

The game of choice for this competitive gathering was Valorant, attracting a diverse array of students from esteemed institutions such as Sri Sairam Institute Of Technology, Shiv Nadar University, and Sathyabama Institute of Science and Technology. A total of six teams, namely KPYT, TRIPLE THREADS, THE RANDOMS, SERAPH, HSR, and HAMMERS, fervently competed, showcasing their strategic acumen and gaming skills.



Unscramble Circuits

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ORGANIZES
UNSCRAMBLE CIRCUITS
"A QUIZ QUEST ON DEBUGGING CIRCUITS"
Debugging in circuits involves
identifying and resolving issues
within electronic circuits

ONLINE @ **6:00pm**
02.05.2024

REGISTER @ <https://bit.ly/unscramblecircuitieee>

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Ms. Maria Bernadette Tamilarasi,
Vice President
Ms. Maria Catherine Jayapriya,
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Convener
Dr. M S Godwin Premi,
Professor, Dept. of ECE
IEEE SB COUNSELLOR

Co-Convener
Dr. Mathan N,
Dept. of ECE

Student Coordinators
M.YUVASHREE, III ECE
DIVYASHREE, II ECE

e-Certificate will be issued for all Participants

In the digital realm of educational exploration, the IEEE Student Branch orchestrated a captivating event titled "Unscramble Circuits" during Educational Week. Despite the virtual setting, this event provided an immersive experience aimed at unraveling the intricacies of circuits, igniting participants' curiosity, and fostering a deeper understanding of electrical engineering principles. Through a series of interactive activities and challenges, participants embarked on a journey of exploration and discovery, enhancing their understanding of circuit theory and its practical applications. Featured a variety of activities designed to engage participants in circuit analysis and problem-solving. The event commenced with an introductory session where participants were introduced to basic circuit concepts and principles. The event culminated in a friendly competition where participants competed to solve circuit-related challenges under time constraints. leveraging online collaboration tools. Despite the condensed timeframe of 30 minutes, the event succeeded in providing participants with a comprehensive understanding of circuits, hands-on experience in circuit analysis, and opportunities for networking and collaboration. As

participants reflect on their experience at "Unscramble Circuits," they carry with them not only newfound knowledge and skills but also a sense of camaraderie and belonging within the IEEE Student Branch community.

Topic	Unscramble Circuits
Date(s) & Time	02.05.2024 & 10am to 12pm
No. of Participants	60
Nature of participants	Students
Venue	Online
Student Coordinators	Ms. M. Yuvashree & Ms. Divyashri S

Contact us:
ieeesathyabama@sathyabama.ac.in

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