



# St. JOSEPH'S COLLEGE OF ENGINEERING

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OMR, CHENNAI - 119



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

# Newsletter

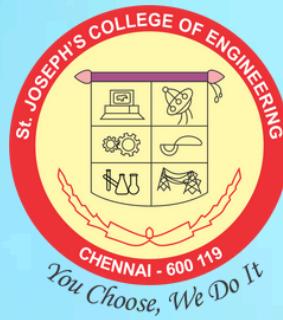
June 2024



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*The Choice of  
Disciplined Toppers*



## VISION

To become a world class renowned department where dissemination and application of knowledge in design and analysis of electronic circuits in the field of communication is delivered and to synergistically balance through relentless pursuit of student success towards the economic prosperity of the society and the world at large.

## MISSION

**Professionalism:** Achieve excellence in teaching, learning, and educational activities which ensure that each student has the opportunity to attain his or her fullest potential

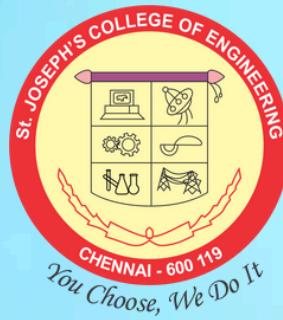
**Core Competence:** Inculcate innovative skills, research aptitude, team-work, ethical practices in students so as to meet expectations of the industry as well as society.

**Research:** Provide research and intellectual resources that address problems facing the industry and the world, while advancing the boundaries of disciplinary and multidisciplinary research and its applications.

**Industrial Interaction:** Provide professional development opportunities for all by creating an open and accessible learning environment and incorporating appropriate technology through collaboration with industry

## PROGRAM OUTCOMES

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or process that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.



4. Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to proceed valid conclusions.
5. Modern tool usage: create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## PROGRAM EDUCATIONAL OBJECTIVES

1. To enable graduates to pursue research, or have a successful career in academia or industries associated with Electronics and Communication Engineering, or as entrepreneurs.
2. To provide students with strong foundational concepts and also advanced techniques and tools in order to enable them to build solutions or systems of varying complexity.
3. To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.



## EVENTS OF JUNE-2024

- Placement Activities
- Industrial Interactions
- Staff Achievements

## PLACEMENT ACTIVITIES

### 3C-CLOUD CAREER CONNECT

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**PLACEMENT PREPARATORY TALK**  
**3C - CLOUD CAREER CONNECT**



**ESWARA PRASAD S**  
Software Engineer  
Presidio Cloud Solutions

11th June  
6.00 P.M - 7.00P.M

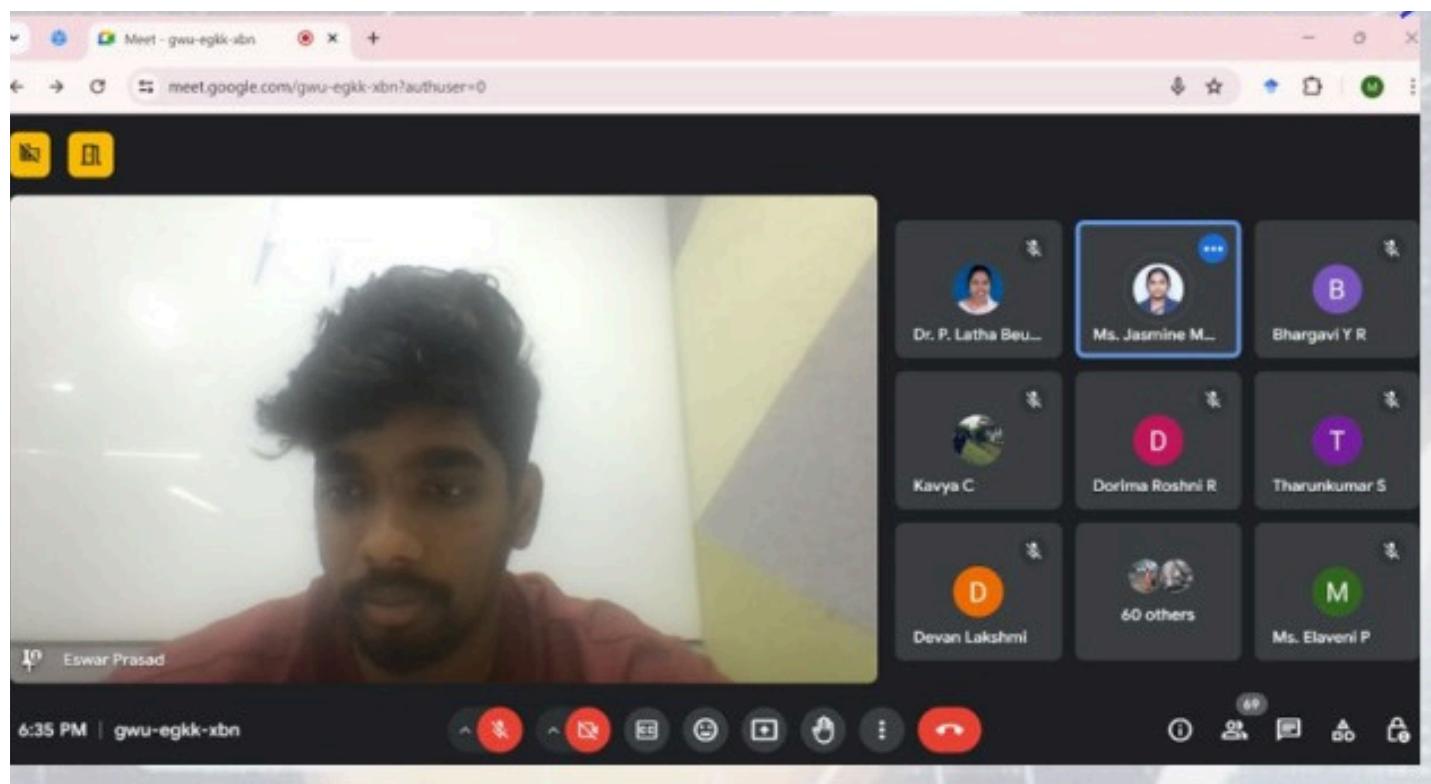
**KEY TAKEAWAYS FOR STUDENTS TO FACE INTERVIEW**

- Learn strategies to approach and solve common aptitude problems effectively.
- Acquired knowledge about the basic codings.
- Learn strategies to present and emphasize relevant projects.
- Gain confidence in discussing technical skills and experiences during interviews

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## PLACEMENT ACTIVITIES



### ECE Alumni Mr. S. Eswara Prasad Shares Placement Insights with Juniors

On June 11th, 2024, the ECE department welcomed back alumnus Mr. S. Eswara Prasad, a Software Engineer at Presidio Cloud Solutions. Mr. Prasad generously shared his valuable insights and experiences with current students, specifically focusing on preparation for placements. This session undoubtedly proved beneficial for the students as they navigate the job search process.

## PLACEMENT ACTIVITIES

### Zoho Carrer Preview

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**PLACEMENT TALK**  
On  
**ZOHO CAREER PREVIEW**  
for Batch 2021- 2025

 **KAVVA M**  
App Developer  
ZOHO Corporation

 [meet.google.com/dmm-hgag-xqt](https://meet.google.com/dmm-hgag-xqt)

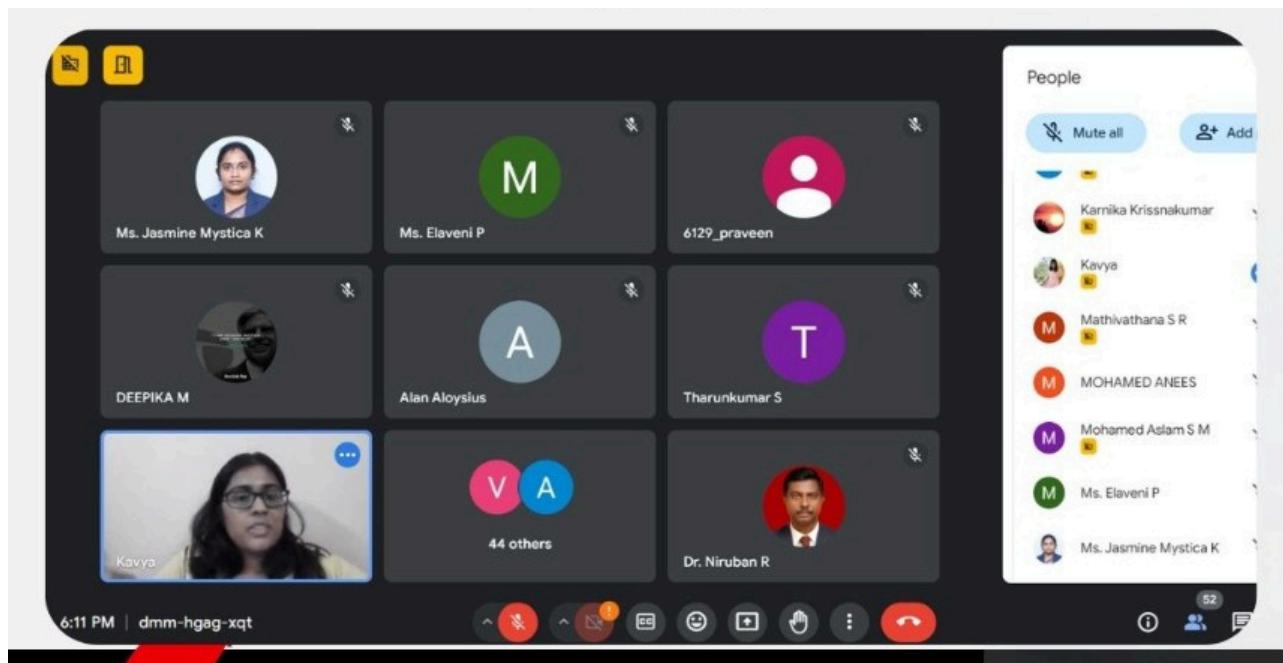
 **15th June**  **6.00 P.M - 7.00P.M**

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## PLACEMENT ACTIVITIES

### Zoho Carrer Preview



### ECE Alumni Kavya M Inspires Juniors with Placement Talk

On June 15th, ECE department alumnus Kavya M, an App Developer at ZOHO Corporation, returned to share valuable insights and experiences with current students. This session focused on helping them prepare for successful placements.

Kavya's talk likely covered:

**Industry knowledge:** Insights into the app development field and current trends.

**Placement preparation tips:** Strategies for crafting resumes, excelling in interviews, and navigating the placement process.

**ZOHO Corporation insights:** Information about the company culture, work environment, and potential career paths for ECE graduates.

This session provided a valuable opportunity for current ECE students to learn from a successful alumnus and gain practical advice for their upcoming placements.

## PLACEMENT ACTIVITIES

### Approaches and career options in ZOHO

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 **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING** 

**PLACEMENT TALK by ELITE ALUMNI**  
On  
**APPROCHES AND CAREER OPTIONS IN ZOHO**  
for Batch 2021- 2025

  
**ANDREW DAVID**  
Member Leadership Staff  
Head of Data Privacy  
**ZOHO Corporation (2012-2016)**

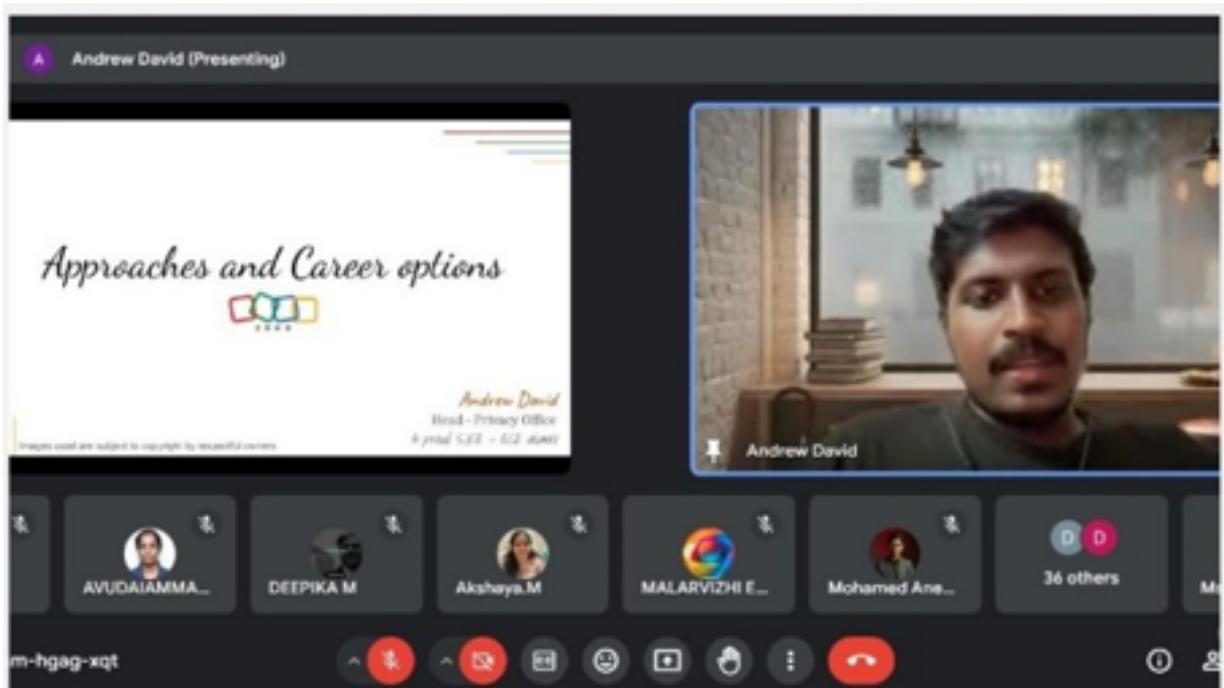
 [meet.google.com/dmm-hgag-xqt](https://meet.google.com/dmm-hgag-xqt)  
 **19th June**  **6.00 P.M -7.00 P.M**

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## PLACEMENT ACTIVITIES

### Zoho Carrer Preview



### Zoho Approaches and Career Options: Insights from Andrew David

On 19th June 2024, Andrew David, Alumni: Batch 2016, Member Leadership Staff, and Head of Data Privacy at Zoho, offered valuable insights into Zoho's hiring practices and career development opportunities. As a Zoho alumnus himself, Andrew provided a well-rounded perspective for both aspiring and experienced professionals.

#### Key Takeaways from Andrew's Talk:

- Understanding the Hiring Team and Process:
- Attributes Zoho Values
- Leveraging Expertise for Problem-Solving
- Career Growth within Zoho

This informative session by Andrew David provided a roadmap for navigating Zoho's hiring process and maximizing your potential for a successful career, both within Zoho and beyond.

## **INDUSTRIAL INTERACTION**

### **Fostering Innovation: Industry Interaction with CSIR-CEERI and Edveon Technologies**



### **Exciting News! ECE Department Announces Successful Industrial Visit and Future Collaborations**

The Department of Electronics and Communication Engineering (ECE) is thrilled to announce a fruitful industrial visit that has paved the way for exciting new collaborations!

Our esteemed faculty members recently visited the Council for Scientific and Industrial Research (CSIR)-CEERI, a premier government research institute, and Edveon Technologies Private Limited, a leading company specializing in VLSI RTL design and verification. During the visit, productive discussions were held with key personnel, including Dr. C. Kumaravelu (Senior Principal Scientist, CSIR-CEERI), Mr. Mukesh Vaidyanathan (Chief Strategy Officer, Edveon), and Ms. Shri Ranjani (Tech Lead, Edveon).

## **INDUSTRIAL INTERACTION**



**We are delighted to share that these esteemed organizations have expressed a strong interest in collaborating with our department on a range of initiatives:**

**Memorandum of Understanding (MoU):** This will establish a formal framework for collaboration, fostering knowledge exchange and joint research projects.

**Internships and Placements:** Students will gain valuable real-world experience through internship opportunities at these organizations and potentially secure placements upon graduation.

**Industry Bootcamp:** Specialized training programs will provide students with industry-relevant skills and insights.

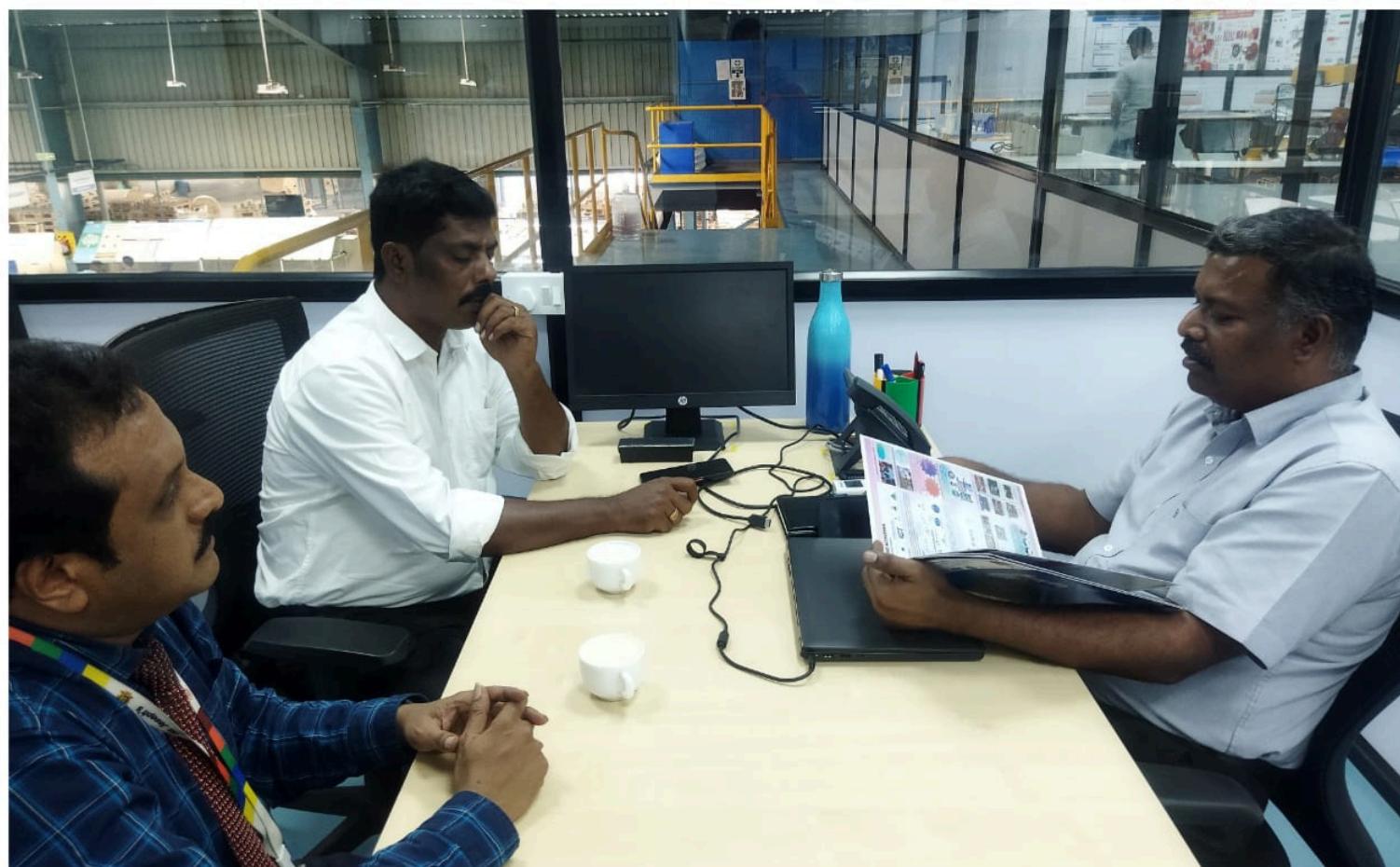
**Student Skill Development Program:** Collaborative programs will equip students with the technical expertise demanded by the industry.

**Board of Study Membership:** Industry experts will provide valuable guidance in shaping our curriculum to align with industry needs.

**Furthermore, CSIR-CEERI and Edveon have welcomed the submission of collaborative project proposals, opening doors for cutting-edge research endeavors.**

## **INDUSTRIAL INTERACTION**

### **Connecting Academia and Industry: A Visit to HTL Ltd.**



### **Collaboration between ECE Department and HTL Ltd.**

ECE department has secured a valuable collaboration with HTL Ltd., a leading provider of integrated telecom products and solutions. This partnership offers exciting opportunities for both students and faculty. Here's a breakdown of the agreed-upon activities:

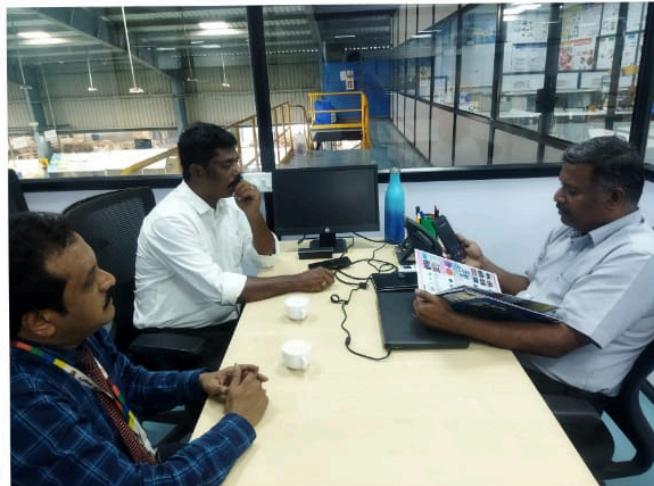
#### **Internship Program:**

Students will gain practical experience working on real-world projects in areas like telecommunication, automotive, and industrial applications. HTL Ltd. will benefit from fresh perspectives and potential innovations brought by interns.

#### **Placement (CE):**

- HTL Ltd. will potentially offer job opportunities to graduating students within the Core Engineering (CE) stream.
- This collaboration can provide students with a strong advantage in securing placements with a reputable company in their field.

## **INDUSTRIAL INTERACTION**



### **Industrial Visit:**

**Students will have the opportunity to visit HTL Ltd.'s facilities to gain firsthand experience with their operations, technologies, and work environment. This visit will provide valuable insights into the industry and potential career paths for students.**

### **Board of Study Member:**

**Mr. G. Arun, Technical Head - Product Development at HTL Ltd., will potentially join your department's Board of Study (BoS). His industry expertise will be invaluable in shaping the curriculum, keeping it relevant to current industry needs and preparing students for successful careers.**

**This collaboration will create a strong bridge between academia and industry. Students will gain valuable practical experience, industry knowledge, and potential career opportunities. HTL Ltd. will benefit from a pool of talented students and faculty expertise.**

## INDUSTRIAL INTERACTION

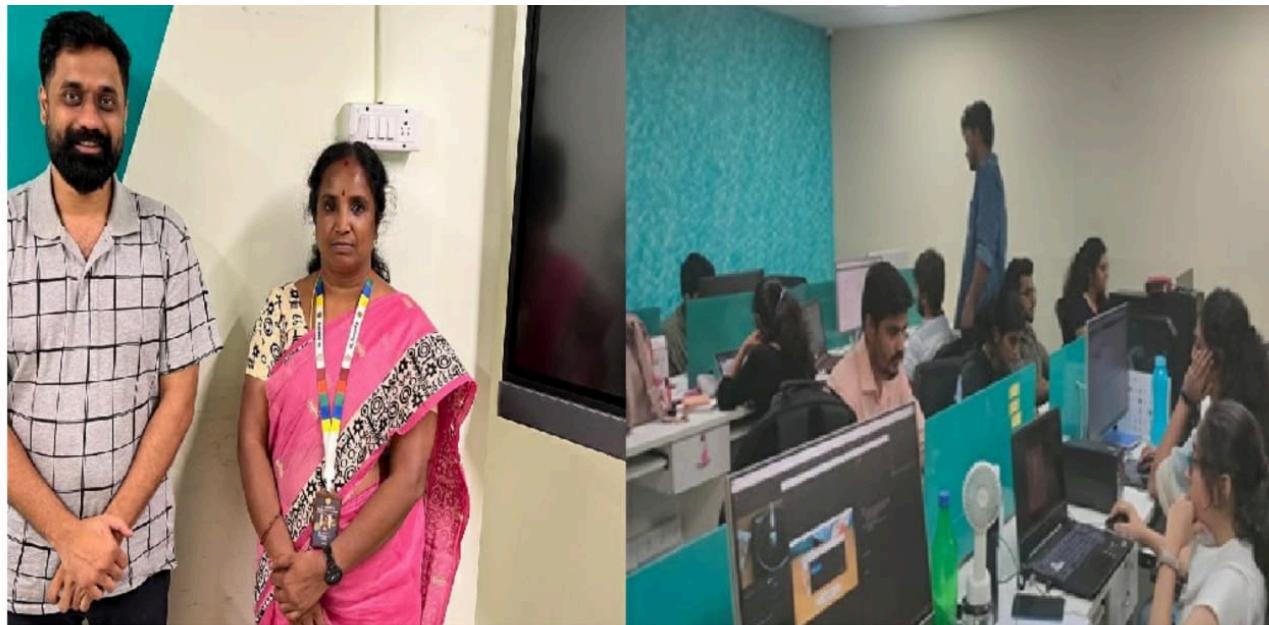
**Deep Dive into Digital: Productive Industrial Interaction with Deep sense Digital Solutions**



**Exciting New Collaboration with Deep Sense Digital Solutions Pvt. Ltd.**

We are thrilled to announce a new collaborative partnership with Deep Sense Digital Solutions Pvt. Ltd., a leading Chennai-based company specializing in Search Engine Optimization (SEO), Mobile App Development, Software Development, and Creative Design powered by Artificial Intelligence (AI) and Machine Learning (ML).

## INDUSTRIAL INTERACTION



**This collaboration will bring forth a multitude of exciting opportunities for our students and faculty:**

**Memorandum of Understanding (MoU):** A formal agreement will be established between our institution and Deep Sense Digital Solutions, outlining the framework for our collaborative activities.

**Center of Excellence (CoE):** Deep Sense may establish a dedicated center within our institution, providing students with access to industry-standard resources, training, and mentorship in the areas of SEO, mobile app development, software development, and AI-powered creative design.

**Paid Internship Opportunities:** Students will gain valuable hands-on experience through paid internship programs at Deep Sense, allowing them to apply their knowledge in real-world projects.  
**Placement Assistance:** Deep Sense may offer preferential placement opportunities to our graduates, providing a strong career launchpad in the digital technology domain.

**Board of Study Membership:** Deep Sense's industry expertise will be invaluable in shaping our curriculum and ensuring it remains aligned with the latest trends and demands of the digital workplace. A representative from Deep Sense may join our Board of Study, providing valuable insights and guidance.

**This collaboration presents a unique opportunity for our students to gain practical skills, industry exposure, and potential career prospects in the ever-evolving field of digital technology. Stay tuned for further updates on the development of this exciting partnership!**

## STAFF ACHIEVEMENTS



**Dr. R.Niruban served as a Trainer for the Master Trainers Training Program**

We are proud to announce that Dr. R.Niruban served as a Trainer for the Master Trainers training program on 29th-30th May 2024.

This program was part of the My Bharat initiative from the Department of Youth Affairs, Ministry of Youth Affairs & Sports, held at St. Joseph's College of Engineering, Kancheepuram, Tamil Nadu.

## **STAFF ACHIEVEMENTS**



**Approximately 50 NSS program officers from various engineering and polytechnic colleges in and around Chennai participated in the training program and were trained as Master Trainers for MY Bharat. This program equips participants to utilize the portal, a valuable resource for Indian youth.**

## STAFF ACHIEVEMENTS



### Dr. B. Victoria Jancee Takes Center Stage at International Conference! ECE Department Beams with Pride

We are honored to celebrate Dr. B. Victoria Jancee, a distinguished faculty member in the Department of Electronics and Communication Engineering (ECE), for her recent accomplishment!

Dr. Jancee served as the esteemed Session Chair at the prestigious International Conference on Recent Trends in Electrical, Electronics and Communication Engineering (ICRTEECE) 2024, held on May 15th at St. Peter's College of Engineering and Technology, Chennai.

Dr. Jancee's leadership and expertise at this renowned conference not only reflects her remarkable contributions to the field but also brings immense pride to the ECE department. Her dedication to academic excellence continues to inspire students and colleagues alike.

## **STAFF ACHIEVEMENTS**

### **SCI/Scopus Publications (Calendar Year – 2024)**

<b>S. No</b>	<b>Author(s)</b>	<b>Title</b>	<b>Journal name</b>	<b>Impact Factor</b>
1.	Dr. S. Rajeshkannan	Cancer Detection using Multi-Layered Kretschmann Configuration-based Refractive Index Sensor	Plasmonics	3
2.	Dr. R. Avudaiammal	Multi-Objective Spider Monkey Optimization for Energy Efficient Clustering and Routing in Wireless Sensor Networks	Ad-Hoc and Sensor Wireless Networks	0.92
3.	Mrs. G. Anitha, Dr. J. Martin Leo Manickam	A comprehensive ensemble pruning framework based on dual-objective maximization trade-off	Knowledge and Information Systems	2.531
4.	Mrs. M. Angelin Ponrani	Brain-Computer Interfaces Inspired Spiking Neural Network Model for Depression Stage Identification	Journal of Neuroscience Methods	3

## **STAFF ACHIEVEMENTS**

### **Conference Publications (Calendar Year – 2024)**

<b>S. No</b>	<b>Author(s)</b>	<b>Title</b>	<b>Journal/ Conference Name</b>
1.	Dr. D. Lakshmi	Decision Trees for Secure and Transparent Equipment Failure Prediction in Cloud-Connected Manufacturing	2024 10th International Conference on Communication and Signal Processing (ICCSP)
		IoT and Cloud Solutions Waste-to-Energy in Hospitals for Energy Recovery from Medical Waste	IEEE Xplore, 2024

## **STAFF ACHIEVEMENTS**

### **NPTEL Certification Fuels Faculty Success!**

The following faculties have done certification on various courses in NPTEL.

<b>S. No</b>	<b>Name of the Faculty</b>	<b>Title</b>	<b>Position</b>
1.	Dr. P. Latha	VLSI Signal Processing	ELITE

## **STAFF ACHIEVEMENTS**

### **Faculty Development Programme**

The following faculties attended Faculty Development on various courses.

<b>S. No</b>	<b>Name of the Faculty</b>	<b>Title</b>	<b>Date</b>
1.	Dr. B. Victoria Jancee	R Programming for Budding Data Analysts	9-18 <sup>th</sup> June 2024
2.	Dr. S. Aghalya	R Programming for Budding Data Analysts	9-18 <sup>th</sup> June 2024

***TO KNOW MORE ABOUT DEPARTMENT ACTIVITIES***

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**Student Editorial:** *N.Shriramkrishna, S.Thavaprakash*

**Reviewed by:** *Dr. S. Rajeshkannan (HOD/ECE)*

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