

**SKCET**

**Buzz**



**10<sup>th</sup> - 16<sup>th</sup> August 2024**

NAAC Accredited  
with Grade

**A++**

CGPA 3.71



National Institutional  
Ranking Framework 2024

**83<sup>rd</sup>**

**Rank**

**Editor-in-Chief**

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Principal

**Co-Editor**

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Reading







# INSTITUTIONAL ACCOLADES



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## SKCET | NAAC ACCREDITATION



**SRI KRISHNA COLLEGE OF  
ENGINEERING AND TECHNOLOGY**

Kuniamuthur, Coimbatore - 641 008



Proudly marking another Achievement!!!



Hearty Congratulations to all the Faculty members, Staff, Students, Parents,  
Industry Partners and all stakeholders



[skcet.ac.in](http://skcet.ac.in)



[srikrishnainstitutions](https://www.linkedin.com/company/srikrishnainstitutions)

**Sri Krishna College of Engineering and Technology (SKCET)** has received **NAAC accreditation with an A++ grade** and an outstanding score of **3.71**. This accomplishment highlights the exceptional efforts and commitment of everyone associated with the Institution.





# SKCET | NAAC ACCREDITATION



**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY**

An Autonomous Institution | Approved by AICTE | Affiliated to Anna University | Accredited by NAAC with A++ Grade  
Kuniamuthur, Coimbatore - 641008

**NAAC**

**A++**

**CGPA 3.71**

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## SKCET | NIRF RANKING



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 **National Institutional Ranking Framework 2024**

**83<sup>rd</sup>**  
**Rank**

**In Engineering Category**  
**In the band of 1-100 in Top Engineering Colleges**

**SKCET engraves its magnificent strides in NIRF Rankings 2024**

**SKCET has won the prominent 83<sup>rd</sup> Rank in Engineering category, 151 to 200 band in Overall Ranking in National Institutional Ranking Framework 2024 (NIRF).**



## SKCET | NIRF RANKING - INNOVATION CATEGORY



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**National Institutional  
Ranking Framework 2024**

In the Band of

**11-50**

In Innovation Category

The Ministry of Education, Government of India, has published the NIRF (National Institutional Ranking Framework) rankings, which list the top engineering colleges across the country in various categories. **SKCET** has achieved a ranking in the **11<sup>th</sup> to 50<sup>th</sup> band nationwide in the NIRF Innovation category (ARIIA).**



# INSTITUTIONAL EVENTS



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## SKCET | INDEPENDENCE DAY 2024



Kuniamuthur, Tamil Nadu, India  
WXQ4+FMF, BK Pudur, Sugunapuram East, Kuniamuthur, Coimbatore, Tamil Nadu 641008, India

**SKCET** celebrated the **78<sup>th</sup> Independence Day** with immense enthusiasm and a deep sense of patriotism. The event was a tribute to the Nation's journey towards freedom and a reflection on the progress made since Independence.



## SKCET | INDEPENDENCE DAY 2024



**Dr. K. Porkumaran, Principal, SKCET**, conveyed his heartfelt Independence Day wishes to all faculty members and students. In his address, he emphasized the importance of unity in diversity, celebrating how our Nation's strength lies in its rich tapestry of cultures and traditions coming together as one and encouraged everyone to embrace unity and togetherness, irrespective of differences, as we work towards the Nation's progress.



## SKCET | INDEPENDENCE DAY 2024



On the eve of the 78th Independence Day, **Dr. C.N. Narayana, Group Director of SKI**, addressed the students by reflecting on the Battle of Plassey and the entry of the East India Company into Bharat. He highlighted how, at that time, India was one of the most developed and wealthiest Nations. He emphasized that freedom is never free; it comes at the cost of soldiers and freedom fighters who fought to regain it. On this day, we remember their sacrifices. Dr. C.N.Narayana expressed confidence that our Nation, with its capable youth, will soon realize the dream of a "Vikshit Bharat" and become a leading economy. He spoke about freedom being present everywhere—in the sky, in the music we create, and in our speech. It represents the courage to express oneself without constraints. He encouraged the youth to embrace their freedom and imagine life without it for just a minute. He concluded by wishing everyone a Happy Independence Day!

## SKCET | INDEPENDENCE DAY 2024



Students of **SKCET** captivated everyone with a journey through the rich tapestry of our Nation's history and culture, showcasing vibrant dance performances and soulful patriotic songs.



## SKCET | INDEPENDENCE DAY 2024



SKCET campus resonated with the spirit of Independence, reminding everyone of the sacrifices made and the freedoms won.

## SKCET | HANDLOOM FASHION SHOW



**SKCET** hosted the **Handloom Fashion Show**, Season 7, Regional Level Prelims, in collaboration with Kovai Makkal Sevai Maiyam and Dream Zone. The event, held in celebration of National Handloom Day on August 7th, was graced by Guests **Mrs. Rajeshree Ravichandran**, **Mrs. Vidya Srikant**, and **Ms. Aparna**, and was inaugurated by our **Principal, Dr. K. Porkumaran**.

Participants were judged on costumes, makeup, posing, draping, and walking style, with a Q&A session highlighting the importance of the handloom industry. Ms. Brinda P V (III year AI&DS) and Mr. Prajan R (III IT B) were selected for the finals, earning a cash prize and certificate. Their efforts in promoting handloom heritage were recognized by our Principal.





## EVENTS



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# CIVIL | TWO DAY SEMINAR ON APPLICATION OF TRADITIONAL HEALTH CARE SYSTEMS IN DAILY LIFE – DAY 1



**Civil Engineering** Department of Sri Krishna College of Engineering and Technology organized an AICTE-VAANI sponsored two-day seminar on “**Application of traditional health care systems in daily life**” on August 9<sup>th</sup> and 10<sup>th</sup> 2024.

## Day 1:

The resource persons were Acu. Hr. Thangamani, Acu Master, Cumbum Academy of Acupuncture, Coimbatore and Acu Hr. NArgis Banu, Director, AURA Acupuncture Academy, Salem, Dr. R. Vetrivendan, Siddha Doctor, Ministry of Health AYUSH Dept, Govt. of Tamilnadu, Salem and Dr. S. Raghuram, Physiotherapist, S S Physiotherapy Clinic – Karaikudi.

## **Program Takeaways:**

- Awareness on traditional health care systems, Simple applications of Siddha and Accu puncture in daily life, Ergonomics.



## EEE| E-KART CLUB ACTIVITY



**Dr.K.Porkumaran, Principal, SKCET** addressed the E- kart students on 08.08.2024. His insight and guidance truly inspired them to push the boundaries of their potential. During the session, the students explored innovative strategies that align with our mission to foster creativity, sustainability and technological advancements. Principal emphasized the importance of holistic education and the pivotal role of student-driven initiatives in shaping the future, which further fuelled their passion. The students were encouraged to participate in upcoming competitions, including those focused-on defense sector innovations, Smart India Hackathon (SIH), IEEE Xtreme, and more. Under his mentorship, the E-Kart Club is excited to continue its journey of innovation and impact.

## CIVIL | TWO DAY SEMINAR ON APPLICATION OF TRADITIONAL HEALTH CARE SYSTEMS IN DAILY LIFE – DAY 2



### Day 2:

The resource persons were Dr. V. Ponnusamy, Retd. Principal, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, Mr. D.Senthilkumar, Vice President, Kovai Manavalakalai Mantram Trust, Coimbatore and Prof. Vethasubbiah Senior professor, World Community Service Center, Aliyar and Ms. S. Revathi, The World Community Service Centre, Aliyar.

### Program Takeaways:

- Applications of Yoga for Holistic Life
- Simple Yoga practice for daily life
- Penance for Physical and Mental Health
- Asanas and Muthras



## EEE | TECHNICAL QUIZ



Department of **Electrical and Electronics Engineering**, in collaboration with **IEEE (PELs)**, organized a **Technical Quiz** competition for the **Second** year students. The students actively participated in the quiz, showcasing their knowledge and exploring new concepts.

- Outcomes of the event contributed significantly to the participants' knowledge enhancement, preparation for competitive exams and readiness for professional challenges.
- The quiz created a timed competitive environment that honed time management skills.
- **Dr. B. Karthikeyan**, Associate Professor elaborated on the objectives of IEEE (PELs), the Sustainable Development Goals (SDG) and their significance.
- **Winners** - Dinesh Karthik - II EEE A and Gokula Krishnan N.P - II EEE A

## EEE | TAMIL PUDHALVAN



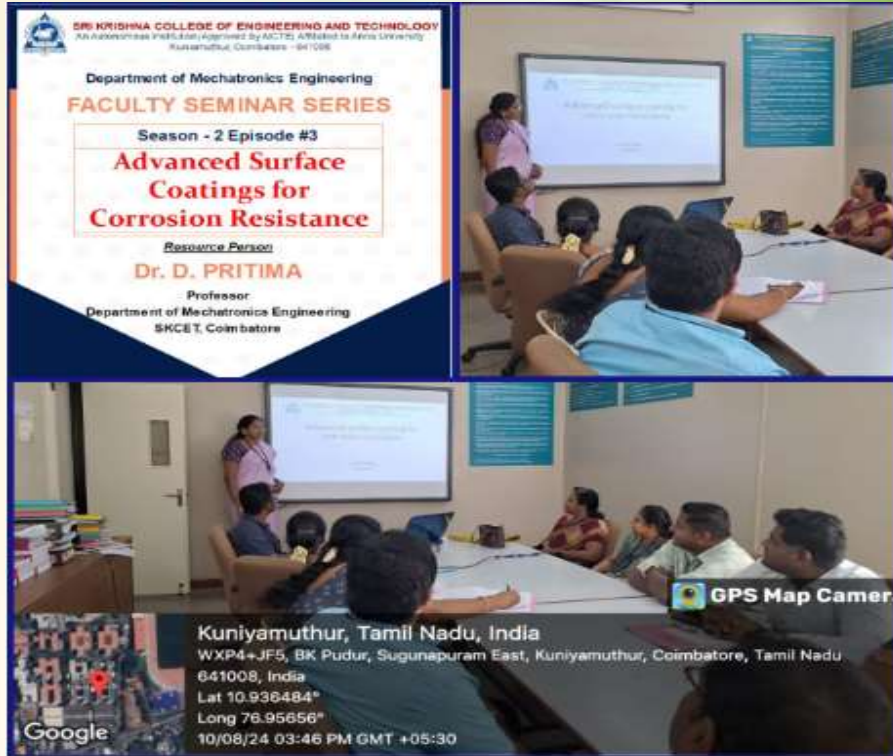
Our Honourable **Chief Minister Thiru M.K Stalin** ceremoniously inaugurated the Tamil Pudhalvan Scheme on 09<sup>th</sup> August, 2024 at 11.30 AM.

Under this scheme, the Government will provide financial assistance of Rs.1000 to the children of the state. The scheme aims to provide financial assistance to around 3 lakh students from reserved backgrounds.

The momentous occasion was witnessed through live streaming by our enthusiastic **EEE** Department students.



## MCT | FACULTY SEMINAR SERIES



Department of **Mechatronics Engineering** organized Faculty Seminar Series as a part of knowledge sharing sessions among faculty members on 10.08.2024. **Dr. D. Pritima**, Professor of Mechatronics Engineering has delivered a session on “**Advanced Surface Coatings for Corrosion Resistance**”. The key takeaways are:

- Corrosion and its types
- Types of coatings
- Physical Vapor Deposition coating
- Chemical Vapor Deposition coating
- Scope of this Research
- Significance of surface coatings
- Advantages and Applications of coatings

## AI&DS | HOD INTERACTION



**Dr.S.Venkata Lakshmi**, HoD, **AI&DS** interacted with the Third year **AI&DS** students on 14.08.2024. During the interaction, she encouraged students to participate in a range of activities, including professional grooming, maintaining campus discipline, adhering to the dress code, being punctual, participating in hackathons and engaging in co-curricular and extra-curricular activities.



# SKCET Buzz



## TUTOR WARD MEETING



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## ECE | CLASS COMMITTEE MEETING - IV YEAR



The First **Class committee meeting** for the **Final year ECE** students was held on 29.07.2024. The meeting was conducted by **Dr Sivaranjani**, Professor Department of EEE. The key points discussed in meeting were: Portion Completion status, Classroom Activity Feedback, Placement Training and Drive.



## EEE | CLASS COMMITTEE MEETING



Department of EEE Conducted **Class committee meeting** for the Final year EEE students. The Pointers of discussion were: Syllabus Coverage, Placement Training, Development of soft and communication skills, myclassroom usage and Preparation for Assessment Test.

Chairperson - **Dr.G.Shobana**, Professor / Department of Information Technology.

## ECE | TUTOR WARD MEETING



**Tutor ward meeting** was conducted for Third year **ECE** students on 12.08.2024 by the respective class tutors. The Key points of discussion were: Miniproject Completion status of MERN full stack Development, Placement daily and weekend practice test, Participation in project contest and Hackathon.





## PLACEMENT AND TRAINING



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## SKCET- PEGA CERTIFICATION OF APPRECIATION



**Dr. Jayasuddha Subburaj**, Dean of Placement, interacted with students at the SKCET Placement Cell. She presented certificates of achievement to students for their exceptional performance in hackathons and projects during the PEGA UAP Boot Camp and awarded the Best Outgoing Student certificate.

PEGA provides interactive learning modules, hands-on labs, and community support to help learners develop practical skills and obtain Pega certification, which opens up lucrative job opportunities through its training program. Pega is a low-code platform for workflow automation and generative AI-powered decisioning.

### Highlights

- Enhance Skills & Readiness Students, Premium Placement Drives & Packages, Global Recognition, Campus Recruitment



## SKCET | PLACEMENT TESTIMONIAL

My name is **Ashwanth S**, from the department of **Civil Engineering**, Batch 2020. My experience at SKCET has been excellent. The faculty and staff have been very encouraging and motivating, providing moral support in all aspects, helping me gain knowledge in both academics and non-academics. This being a core department, conceptual learning was taught clear to us. This helped us get placed in the core-companies that we had attended in placement drives organised by placement cell. Thanks to my parents, the SKCET management, the Principal and the department faculty for the wonderful opportunity.

**ASHWANTH S – CIVIL**

**BLUESCOPE STEEL INDIA PRIVATE LIMITED**



## SKCET | PLACEMENT TESTIMONIAL

My name is **Sanjith D**, and I recently graduated from **the Computer Science and Engineering** program at SKCET, class of 2024. Thanks to the comprehensive placement training provided by our qualified professors, I secured a position at Capgemini. SKCET not only offers high-quality education but also numerous placement opportunities, making it one of the leading institutions in Tamil Nadu. I am deeply grateful to my parents, the SKCET management, the Principal, and the entire SKCET community for their support and for laying a strong foundation for my career success.

**SANJITH D – CSE  
CAPGEMINI**







## RESEARCH AND DEVELOPMENT



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# R&D | PUBLICATION | ECE



**Mrs.R.Niranjana**, Assistant Professor, Department of **ECE** has presented and published her conference paper on **“Enhanced Skin Diseases Prediction using DenseNet-121: Leveraging Dataset Diversity for High Accuracy Classification”** at the 2024 3<sup>rd</sup> International Conference on Applied Artificial Intelligence and Computing (ICAAIC). It is a Scopus Indexed Conference.

# R&D | PATENT PUBLICATION | MCT

**Dr.S.Madhankumar**, Assistant Professor of **Mechatronics Engineering** has filed a design patent on **“Iron Box”**, along with Third year students **S.Ganesh, V. Dhanush, K. Aravindhan** and **R. Harish**.





# R&D | JOURNAL PUBLICATION | M. TECH CSE

## Anomaly based Intrusion Detection System using Hybrid Machine Learning Approach in IoT Environment

PDF

R.S.Kamalakaran, R.Senthikumar, S.Gokulraj, J.Senthil

### Keywords:

Internet of Things, Intrusion Detection System, Xgboost, machine learning, Convolutional Neural Network

### Abstract

To come up with a data-centric ecosystem, this work delves into the ideas of the Internet of Things (IoT) as well as machine learning (ML). The IoT and ML have become crucial tools for smart city solutions that depend on massive data gathering, processing, and decision-making. For the purpose of detecting and preventing intrusions into computer systems and networks, an intrusion detection system (IDS) keeps tabs on and analyzes data. Accurate and precise intrusion detection is difficult because network data has a large capacity and contains duplicate and unnecessary information. For the purpose of detecting network attacks in IDS, this study proposed a hybrid deep learning (DL) strategy including a convolutional neural network (CNN) and Xgboost. Additionally, this approach processes three publicly available datasets—such as the NSL-KDD, UNSW-NB15 as well as CICDDoS2018. This work preprocesses the obtained data using normalisation to preserve redundancy. Next, give the output from pre-processing stage to the feature selection procedure, enabling it to use principal component analysis (PCA) to compile the best features. Comparing the proposed hybrid strategy with existing methodologies demonstrates its efficiency.

**Mr.J.Senthil**, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has successfully published a paper titled **“Anomaly based Intrusion Detection System using Hybrid Machine Learning Approach in IoT Environment”** in WOS and scopus Indexed journal ‘Journal of Electrical Systems’ with ISBN Number: 1112-5209 Vol. 20 No. 10s (2024) on 9.8.2024.

## CAN YOU SOLVE?

If

$$4 + 4 = 20$$

$$5 + 5 = 30$$

$$6 + 6 = 42$$

$$7 + 7 = 56$$

then

$$9 + 9 = ??$$



# FACULTY PROGRESSION



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## EEE | EV WORKSHOP



**Ms.R.Geethamani Assistant Professor, EEE Department** along with EEE Students attended EV Workshop on “**Mastering E/E Architecture of EV’S**” at Zone by the Park Hotel, Coimbatore on 13-08-2024 organized by **StartupTN**, initiative by the **Government of Tamilnadu** to discover the core of Electric Vehicle Technology.

### Keynote Speakers:

1. Mr. Srinivasan,  
Head, EV Task Force, Government of Tamilnadu
2. Mr. C N Prem kumar,  
AVP – Startup TN

### Session take-aways:

- Importance of Software/E/E Architecture in EVs,
- Challenges faced by EV Startups and Manufacturers,
- Operating System by Tamilnadu Government for Startup,
- Software Defined Vehicle (SDV), Open Electronic Control Unit (OECU)



# FACULTY CERTIFICATIONS



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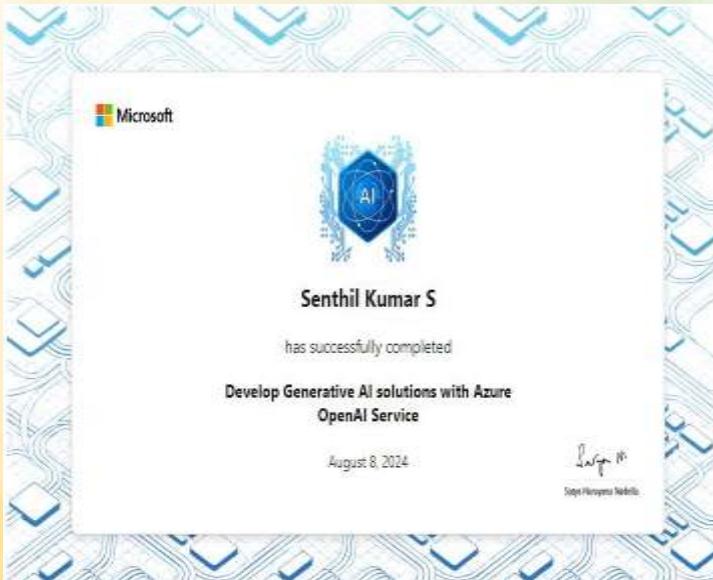


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## AI&DS | MICROSOFT CERTIFICATION



**Mr.S.Senthil Kumar,** Assistant Professor of **AI&DS** has successfully completed a course titled **“Develop Generative AI solutions with Azure OpenAI Service”** offered by **Microsoft** on 08.08.2024

## AI&DS | INNOVATION AMBASSADAR



**Mr.K.Balaji, Mr.G.S.Pugalendhi** and **Mr.S.Senthil Kumar,** Assistant Professors, of **AI&DS** have successfully completed Innovation Ambassador Training on **“Reskilling”** conducted by **MOE’s Innovation Cell & AICTE.**

## AI&DS | MICROSOFT CERTIFICATION

Mr.G.S.Pugalendhi, Assistant Professor of **AI&DS** has successfully completed a course titled “**Design a data ingestion strategy for machine learning projects**” offered by **Microsoft** on **10.08.2024**



## ECE | FDP ON IOT ENABLED EMBEDDED SYTEMS



Dr S M Asha Banu, Assistant Professor from the department of **ECE** has attended NITTTR sponsored one week Faculty Development Programme on “**IoT Enabled Embedded Systems**” from 22.07.2024 to 26.07.2024.



# CIVIL | IA TRAINING



Dr. Sadheesh, Mr. S. C. Boobalan and Mr. R. Vighnesh, Assistant Professors, of Civil Engineering have successfully completed Innovation Ambassador Training on “Reskilling” conducted by MOE’s Innovation Cell & AICTE.

# EEE | WORKSHOP ON OPERATING SYSTEM FOR ELECTRONIC DEVICES



Dr.K.Muthukumar, Associate Professor and Mr.V.V.Vineeth, Assistant Professor, in the Department of EEE, have successfully completed workshop on “Operating System for Electronic Devices” organized by iamneo from 03.06.2024 to 14.06.2024.

## MCT| SEMINAR PARTICIPATION



**Dr. S. Dinesh**, Assistant Professors of **Mechatronics Engineering**, has actively participated in the AICTE – Vibrant Advocacy for advancement and Nurturing of Indian Languages (VAANI) sponsored Two days seminar on **“Application of Traditional Health Care Systems in Daily Life”** organized by the Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore from 9<sup>th</sup> August to 10<sup>th</sup> August 2024.

## MCT| FDP PARTICIPATION



**Dr. S. Dinesh**, and **Dr. M. Bhuvaneshwari**, Assistant Professors of **Mechatronics Engineering**, have attended Five Days International Virtual FDP on **“Exploring New Frontiers in Teaching Tools, AI and Data Analytics”** organized by MEASI Institute of Information Technology, Royapettah, Chennai from 29.07.24 to 02.08.24.



## M.Tech CSE | IA CERTIFICATION



**Ms. Ram K Shivany**, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has successfully completed Innovation ambassador training Reskilling on 13.8.2024.

## AI&DS | INFOSYS CERTIFICATION

**Mr. A. Wasim Raja**, Assistant Professor of **AI&DS** has successfully completed a course titled **“Explore Machine Learning using Python”** offered by Infosys springboard on 10.08.2024

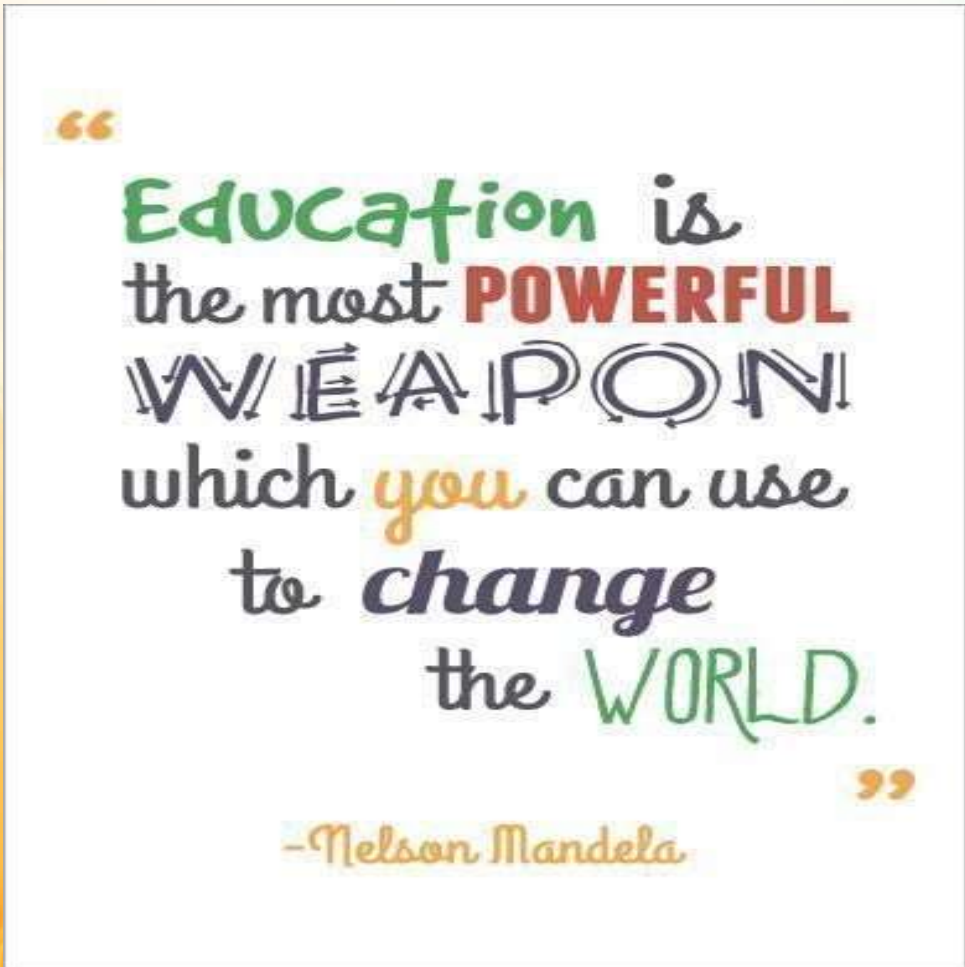


## ECE | IA CERTIFICATION



Dr. V. Karthik Associate Professor of Department of ECE have attended Innovation Ambassador (IA) training “Reskilling” 21 sessions of 21 Contact hours conducted by MoE’s Innovation Cell & AICTE during the IIC Calendar year.

## LEGENDARY INSIGHTS







# ALUMNI CORNER



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## CSBS | ALUMNI INTERACTION



**Ms. Vityarubbasiri M**, prominent alumni from the Department of **Computer Science and Business Systems** (2020-2024 batch), currently pursuing her MSc at Trinity College Dublin, Ireland delivered an insightful seminar on the topic “**Navigating the Path to Higher Education: Insights and Experiences**”, on **August 13, 2024** for the Final-year Computer Science and Business Systems students.

### Session Takeaways:

- Importance of Higher Studies
- Choosing the Right Program
- Application Process
- Challenges and Opportunities
- Future Prospects



## MECH | ALUMNI REVISIT



### Honoring Legacy:

The Pioneering Mechanical Engineering Alumni Revisit Sri Krishna College of Engineering and Technology

The inaugural cohort of alumni from the **Mechanical Engineering Department (1998-2002)** of **SKCET** revisited their alma mater. Shri. K. Adithya, Trustee, SKI interacted with the Inaugural Batch Alumni. They also engaged in meaningful conversations with the Deans and embarked on a comprehensive campus tour.

As they reminisced about their time at the Institution, they shared reflections on how their experiences at the college profoundly shaped their lives. They conveyed that the foundation laid by the Institution played a pivotal role in their personal and professional development, highlighting its enduring influence on their achievements and identities.



## CREATIVE CORNER



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## AI&DS | CREATIVE CORNER



**SANDHYA V**  
**II AI & DS B**

## ECE| INDUSTRIAL AUTOMATION TECHNOLOGY



**Industrial automation** is the use of control devices such as PC/PLCs/PACs etc. to control industrial processes and machinery by removing as much labour intervention as possible, and replacing dangerous assembly operations with automated ones. Industrial automation is closely linked to control engineering. Automation refers to any mechanism that operates independently. The term comes from the Greek words “Auto” (self) and “Matos” (moving). Compared to manual systems, automation offers superior precision, power, and speed.

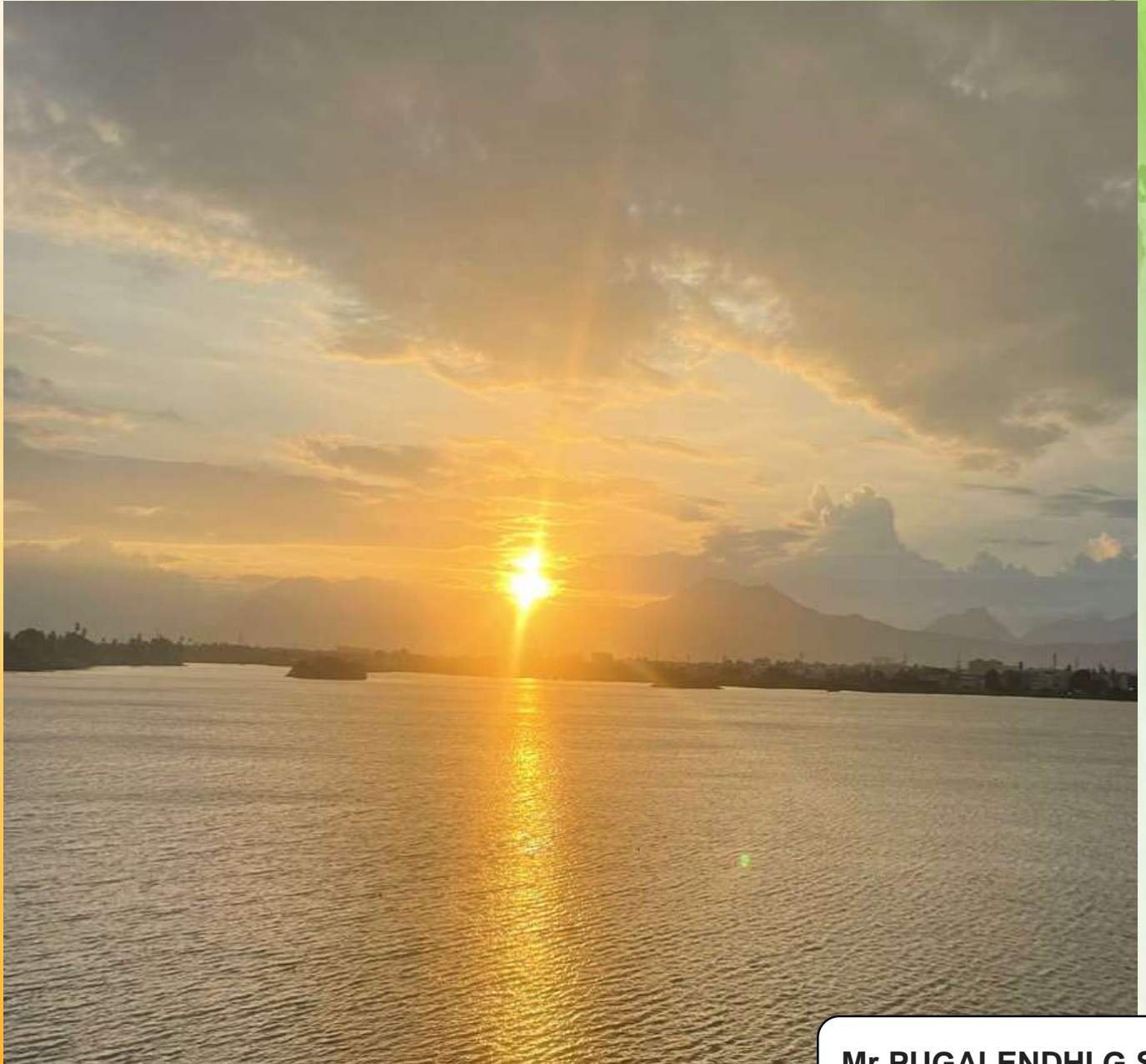
Global Industrial Automation Market size was valued at USD 171.21 Billion in 2022 and is expected to grow from USD 185.42 Billion in 2023 to reach USD 350.9 Billion by 2031, at a CAGR of 8.3% during the forecast period (2024-2031).

The Benefits of Industrial Automation are Improve Worker Safety, Increase Productivity, Higher Quality, Better Decision Making.

- HARIN M - III ECE A



## AI&DS | CREATIVE CORNER



**Mr.PUGALENDHI G S**  
**AP/AI & DS**

## ECE| INDUSTRIAL AUTOMATION TECHNOLOGY



The field of Electronics and Communication is constantly evolving with new advancements that push the boundaries of technology and innovation. One of the most significant recent developments is the advent of 5G technology, which promises to revolutionize the way we connect and communicate. This article explores the various aspects of 5G technology and its implications for the future.

5G technology can achieve data rates up to 10 Gbps, allowing for the rapid download of large files and smooth streaming of high-definition content. With latency reduced to as low as 1 millisecond, it supports real-time applications like autonomous driving and remote surgery. Additionally, 5G can connect up to a million devices per square kilometer, promoting the expansion of the Internet of Things (IoT) and smart cities. Enhanced error correction and improved signal strength ensure more reliable connections, even in crowded or remote areas.

- **Joe Anni Jeffia, III ECE A**



## ECE | THE SURGE OF QUANTUM COMPUTING: A NEW ERA OF TECHNOLOGY

As the digital age progresses, the world stands on the brink of a technological transformation that could redefine computing as we know it: the advent of quantum computing. This emerging field, which leverages the principles of quantum mechanics, promises to revolutionize industries ranging from cryptography to drug discovery, and even artificial intelligence. Here's a look at how quantum computing is set to impact the future and why it's one of the most exciting developments in the tech landscape today.

Quantum computing represents a leap forward in technological innovation, with the potential to transform industries and solve problems that are currently beyond the reach of classical computers. As research and development continue to advance, the day when quantum computing becomes a mainstream technology draws nearer. The IT industry, along with other sectors, must prepare for this new era of computing, embracing the opportunities it presents while addressing the challenges it poses. The future of quantum computing is bright, and its impact on our world could be nothing short of revolutionary.

Quantum algorithms can process vast amounts of data more efficiently than classical algorithms, enabling more sophisticated machine learning models and faster AI training. For instance, quantum computers could optimize AI algorithms to solve complex optimization problems, such as those found in logistics, finance, and autonomous systems, with greater precision and speed. As a result, AI-powered applications could become more accurate and reliable, driving further innovation across industries.

- **Gokulmathi.P, III ECE A**