



**SREE SAKTHI**  
**ENGINEERING COLLEGE**

Affiliated to Anna University & Approved by AICTE, Accredited by NAAC

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NO. **1**

COIMBATORE'S  
**INDUSTRY**  
**INTEGRATED**  
**CAMPUS**



## "INVICTUS 2K24" ANNUAL REPORT 2023-2024

**DATE: 04.05.2024**

Our institution does not believe in counting the minutes, the hours, days, weeks and months, but counting memories. Most memories are remarkable, but time is very short to deliver all. Therefore, friends, let me present to you a very brief account of happenings that we all experienced during the academic year 2023-24.

Esteemed Guest for today's function, Dr. C. Sylendra Babu, IPS (Retd.), Former DGP/ Head of Police Force, Tamil Nadu; Hon'bl Chairman, Shri. N. Dharmalingam; dignified Correspondent, Dr. S. Karthikeyan; most respected CEO, Dr. N. Prasannan; eminent Dean, Prof. P. Malarvizhi; Heads of the departments; Special Invitees; Faculty Members; Admin staff; Press & Media, and my dear students! I'm very much delighted in welcoming you all for this grand Annual Day Celebration.

As the Principal of this College, it's my profound privilege and honor present the Annual Report of the College before the august audience present here. This year is marked with many fruitful events and success stories. This can be attributed to the dedication and team spirit of the Staff, Students and distinguished members of the Management.

The massive students' strength of the College during the current academic year is 1015. We presently offer 9 UGs, a PG and Ph.D, programmes and 5 Polytechnic courses.

Our institution has applied and received 2f status from UGC, an important accreditation for institutions in India, which demonstrates our institution got compliance with UGC standards and provide us eligibility to receive financial support and other benefits from the government. The Institution is approved by the Government of Tamil Nadu and All India Council for Technical Education, New Delhi and is affiliated to Anna University, Chennai. We have successfully entered into Autonomous status recently as an additional golden feather to our crown which dynamically increases the intake from 300 to 360. Also proudly seated in the 2nd position among the affiliated colleges across Tamil Nadu in terms of admission in TNEA 2023.

Efficient leadership and support provided by our esteemed Management, excellent contribution made by the faculty members, and proactive students assist to develop the core values of the Institution. Our institution has a modern, eco-friendly, fully networked campus and classrooms are equipped with audio-visual aids, Projector and Wi-fi hotspots in needed areas. We provide the latest Lab facilities to support our students in gaining practical exposure and our excellent digital library facilities give access to a wealth of materials and information.

Currently, our faculty strength is 112 and Staff & Student Ratio is 1: 18. We have a fruitful number of Ph.D., holders and a good number of Research scholars in our teaching fraternity.

The students are excelling the end semester university examinations by bringing more number of university ranks to the college. The pass percentage in Anna University Examinations is around 70%.

## HIGHLIGHTS OF SSEC ACCOMPLISHMENTS

- As a gate entry, Bridge course is usually conducted for the newly admitted students as an ice break session bridging the gap between school and college.
- A National level Symposium "INTER'O'FEST 2K24" had been organized and nearly 750 students participated in the symposium.
- A Six day NSS camp had been organized for our students in order to enhance their personal and professional development through community engagement, skill enhancement, fostering a sense of civic responsibility, etc.

### VALUE ADDED COURSES:

#### **"Small courses, big impact; Invest in oneself with value-added courses"**

- Dept of S&H conducted a One week special course on "Advanced Python Programming".
- ECE dept. organized Courses on "Artificial Intelligence", "Advanced Python Programming" and "IOT".
- EEE dept. effectively organized Courses on "Artificial Intelligence", "IOT & Robotics" conducted by VEI Technologies.
- Mech dept. productively conducted Courses for 10 days on "Advanced Python Programming" and 1 Week Course on "Robotics".
- Civil dept. organized a special course for 10 days on the topic of "Python".
- Diploma branch profoundly organized a course on "Autocad".

### FIELD TRIPS & INDUSTRIAL VISITS:

#### **"From textbooks to factory floors: Industrial visits ignite learning"**

- Field trips arranged for I year students to Bhavani Sagar Dam, Bannari Amman Temple, Isha Yoga Centre, Bettathamman Kovil and Industrial visit to SSEC group of companies.
- ECE dept. organized Industrial visits to Salzer Pvt. Ltd., Coimbatore and Blue sky Geo Spatial Pvt. Ltd., Kerala.
- EEE dept. organized Industrial visits to Nisha Engineering Works, Akkumajee Pattern Works, TRN Patterns & Dies and Salzer.
- Mech dept. organized trips to Wonderla, Chikmangalur, Coorg & Kerala and Industrial visits to Small Scale Industries in Bettathapuram, Chinnavadampatti & Tosree Kumaran Automation Industries, Kovilpalayam.
- Civil dept. organized Site Visits for Reinforcement work and Concreting work practices.
- Diploma cell organized Industrial visits to 5k Cars Pvt. Ltd, Coimbatore; Sri Balaji Plastics Industries, NGO Colony, Coimbatore; a trip to Cochin; Tamilnadu Startup Thiruvizha; Shanthi Castings Pvt. Ltd, Coimbatore and a trip to Isha Yogo Center.

### HANDS-ON TRAINING:

#### **"Skill-building in action: Hands-on training makes it happen"**

- The most demanded Hands-on training session on "Generative AI" conducted by CSE dept. at SSEC campus.
- Civil Dept. organized an effective training session on "Column marking" and "Contouring" at Bettathapuram hill site.
- Mech dept. effectively organized a session on "Mantling and Dismantling of an IC Engine Components".
- Diploma branch conducted excellent training sessions organized by Ambal Auto, Coimbatore and Technomatix Simulation Modelling.

## **WORKSHOPS:**

### **"Explore, experiment, evolve: Workshops shape the future"**

- Around 160 students from I year enthusiastically involved in LIV: A Skill and Attitude Building Activity based Workshop.
- 7 workshops had been intensively attended by S&H staff members.
- CSE dept. organized a productive workshop on "Embedded systems using Java".
- ECE dept. organized tech demanded workshops on "Internet of Things" and "Ethical hacking & Cyber security".
- Students of ECE dept. effectively attended 7 workshops under the topics of "E-mobility with IOT", "Integrating Arduino with LABVIEW and IOT solution", "Arduino Robotics & Ultrasonic Radar" and "Back end development".
- EEE dept. conducted CSIR sponsored 2 days workshop on "Smart charging Bright future: Understanding battery management system in Electric Vehicle" and "Ethical Hacking & Cyber Securities" conducted by VEI Technologies.
- Students of EEE dept. attended Workshops held at Karpagam College of Engineering and Sengundhar College.
- 3 no. of workshops actively attended by Mech dept. students at Rathinam Grand Fest.
- Mech dept. staff members productively attended 5 workshops.
- 3 Staff members of Civil dept. intensively participated in the workshop on "Innovative Teaching Methods for the 21st Century" organized by FDP Division, A.C.T. Academy, Kerala.
- Diploma wing organized a dynamic Workshop on Autocad with the motto of keeping everything updated related to latest technology.
- A One Day Technical Workshop on "Leveraging AI Tools" attended by Diploma faculty.

## **FDPs:**

### **"Leading the way in pedagogical advancement: FDPs at the forefront"**

- 23 Faculty Development Programmes intensively attended by S&H faculty members.
- CSE dept. staff effectively attended two Online Faculty Development Programmes.
- ECE and EEE depts. conducted an FDP on "Innovation, Incubation, Startups & Research challenges in India".
- Staff members of ECE and EEE depts. attended FDPs under various topics like "Recent advances in Smart materials and Sensor Technology", "Modern research convergence in next generation computing", "Emerging technologies for education and research", "VLSI and Chip design" and "Realizing the benefits of academic research".
- EEE dept. conducted an FDP on "Current trends in Engineering, Science and Technology".
- FDPs effectively attended by EEE dept. staff members under various topics like "Empowering Educators: AI in Robotics and Automation for Innovative Initiatives in the Digital Era", "Recent trends in innovative application of AI Technologies", "Effective research paper writing strategies and high impact journal publications", and "Challenges & Opportunities in Electric Vehicle".
- Mech and Civil depts. conducted an FDP on "Empowering Educators: Navigating Cutting-Edge Technologies in Industry 4.0".
- Around 12 FDPs effectively attended by Mech dept. staff members.
- Civil dept. staff members attended an FDP on "Research Methodology and Research Report Writing" organized by Trinity College of Engineering & Technology, Pedapalli and Institute of Public Enterprise.
- Around 6 FDPs efficiently attended by Diploma staff members.

## **NPTEL:**

### **"Embark on your learning journey with NPTEL by your side"**

- NPTEL certification successfully acquired by Mr. S. Sureshkumar, AP/ Chemistry, S&H dept. under the title "Stereo Chemistry".
- Ms. S. Divya Priyadarshini of CSE dept. fruitfully got certification on "Joy of Computing".
- Ms. S. Keerthana of III ECE got cleared NPTEL course.
- 3 staff members of Mech dept. got certification under the topics of "Steam and Gas Power Systems", "Metrology and Inspection" and "Laser Based Manufacturing".
- Mr. P. Chakaravarthy, HOD/ Diploma got certification on "Computer Integrated Manufacturing".

## **SEMINAR & WEBINAR:**

### **"Seminar & Webinar: The progressive illuminating stage for knowledge exchange"**

- By envisioning the futuristic scope in the forthcoming era, a power packed seminar on "Unveiling New Avenues of Next Generation High Performance Computing" successfully conducted by CSE dept. at SSEC campus.
- ECE dept. organized a webinar on "Career guidance and New technologies to learn" and seminars on "Robotics and Automation" & "IOT in Communication Technologies".
- 14 no. of seminars deliberately attended by ECE dept. staff members under various topics such as "Leveraging AI tools for technical paper presentation", "Design of wireless networks using network simulator", "Artificial intelligence and Machine learning", "Model based system design for automotive engineering - A Matlab approach", "Design & Simulate CMOS basic gates & flip flops" and "Recent progress in Mathematical sciences".
- EEE dept. organized a power packed seminar on "Job opportunities on Prompt Engineering".
- Mech dept. organized a dynamic seminar on "Data Analysis & Data Visualization for Engineers".
- Mech dept. staff members productively attended 2 webinars.
- Civil dept. organized a webinar on "Project Management".
- 4 seminars successfully organized by the Diploma cell under the titles "Computer Numerical Control"; "Part Grouping Methods in Design Engineering"; "How to become a Successful Entrepreneur" and "Advance Joining Process".

## **GUEST LECTURES:**

### **"Elevate your learning with guest lecture brilliance"**

- CSE dept. organized a lecture on "Theory of Computation".
- ECE dept. conducted lectures on "Signals & Systems" and "Recent trends in electrical vehicles".
- EEE dept. organized a lecture on "Current trends in Electric Vehicle".
- Mech dept. conducted a lecture on "Transforms and Partial Differential Equations".
- Diploma division organized a lecture entitled "Tamilnadu Global Investor Meet 2024".

## **CONFERENCES:**

### **"Unlocking possibilities, fostering connections through Conferences"**

- 3 conferences productively attended by S&H dept. staff members.
- 8 faculty members from CSE dept. tremendously extended their participation in International Conferences.
- EEE dept. staff members excellently participated in the National conference on "Innovations in Communication and Electrical Drives" and "Innovation & Advancement in Electrical Sciences".

- Mech dept. staff members energetically participated in the National Conference on "Functional Material and Aerospace & Applications" conducted by KIT and "Sustainable and Development" conducted by Dr. MGR University and Applied Research.

#### **IN-PLANT TRAINING & INTERNSHIPS:**

##### **"In-plant training matches the classroom concepts with the real-world application"**

- 39 students from III and IV year CSE successfully went into Internships in various well-known companies via online as well as offline mode.
- 15 students from ECE dept. went into in-plant training sessions held at Pricol Pvt. Ltd., Coimbatore.
- 10 students of EEE dept. went into training sessions held at Pallakad Surgical company and Authenza Automation, Chennai.
- 25 students of Mech dept. completed the training session conducted by EDUMAE Software Training Center.
- 4 students of Civil dept. completed the sessions at Hasini Construction & Developers, Coimbatore; Annamalayar Construction, Coonoor; Er. Eswaran Pavithra Association, Architecture Firm in Coonoor and Sai Builders, Salem.
- 6 students from Final year Civil productively attended Industrial Training.
- Diploma students effectively attended in-plant industrial training at Sree Sakthi Equipment Company; Sree Sakthi Metal & Alloys; 5k Cars Pvt. Ltd, Coimbatore; Annamalai Agencies, Madurai and Infotech & Industries Service Ltd, Coimbatore.

#### **CONSULTANCY ACTIVITIES:**

- 4 no. of Consultancy activities conducted by Civil dept. on "Welded Steel rod (Tensile Strength)" and "Concrete Cubes (Compressive Strength)".

#### **RESEARCH & DEVELOPMENT:**

##### **"Research: The quest for understanding, the path to breakthroughs"**

- 5 no. of research papers successfully presented by S&H dept. staff members and a paper got published under the title of "The Values of Human Relationship in Thomas Hardy's Novel - The Mayor of Casterbridge" in Solovyov Studies ISPU, Volume 72, Issue 2, 2024.
- 5 faculty members of CSE dept. successfully published their research papers in International Journals.
- 6 staff members of ECE dept. published their research paper entitled "High Performance Ethanol and Acetone Gas Sensing Behavior of  $\text{FeCo}_2\text{O}_4/\text{Graphene}$ " in Journal of Patent Office, No.10/2024, dated 08.03.2024 and got patent rights.
- EEE dept. staff members published 3 Research papers entitled "Domino Circuit design of a Sub-32 nm wide FAN-in GATEM"; "Speed control of Brushless DC electric motor using Hybrid takagi sugeno fuzzy logic and enhanced GSA with PSO" and "Analysis of the experimental configuration of a stand alone PV System".
- Mech dept. staff published a paper entitled "Conceptual Design and Fabrication of Eco-Friendly Road Cleaning Machine".

#### **SYMPOSIUMS:**

##### **"Symposium synergy: Where minds merge and insights emerge"**

- Around 10 number of various symposium events profoundly attended by the I year students and actively participated in Technical events at National level Technical Symposium organized by Hindustan Engineering college and Non-Technical events as well as Paper Presentations at National level Technical Symposium organized by Karpagam Engineering college.

- I year students dynamically registered their participation in National level Technical Symposium “Vahana V6” organized by Hindustan College of Engineering and Technology.
- 55 students of ECE dept. massively attended Symposiums held at Sri Ranganathar Institute of Technology, Karpagam college of Engineering, Kongu Engineering college, Dr. N. G. P. Institute of Technology and Knowledge Institute of Technology.
- III year ECE students bagged third prize in Project Presentation in the Technical Symposium conducted by CIET.
- EEE dept. students intensively participated around 7 Technical and Non-Technical events during Symposium meets.
- Mech dept. students excellently participated in 15 no. of Symposium events like Technical, Non-Technical and Paper Presentations conducted by Hindustan Engineering College, Karpagam Engineering College, “Vahana V6” at Hindustan College, Techno and Cultural Fest at Karpagam Institute of Technology and "Sristi 2024" at Sri Ranganathar Institute of Engineering and Technology.
- Civil dept. students enthusiastically participated in Symposium events held at Dr.NGP Institute of Technology, Sri Ramakrishna Engineering College and Adithya Institute of Technology.
- Diploma students massively attended 6 no. of symposiums at RVS Polytechnic College, Sulur; PA Polytechnic College, Pollachi; Nanjiah Lingammal Polytechnic College, Mettupalayam; Kongunadu Polytechnic College, Trichy; NPA Centenary Polytechnic College, Kotagiri and Excel Polytechnic College, Kumarapalayam.

## **PROJECT EXPO**

### **"Experiencing innovation firsthand: Step into Project Expo"**

- SSEC organized a Project Expo as a special Techno treat during Engineers' Day celebration.
- Mech dept. successfully organized 3 Project Expos on Innovate Tamilnadu Hackathon Challenge, Tamilnadu BJP Startup Cell & at Kalasalingam University.

## **CULTURAL FEST:**

### **"Rhythm, colors, and harmony: Dive into Cultural Fest"**

- I year students intensively involved in a National level Techno and Cultural Fest at Karpagam Institute of Technology; CREZILS 2024 organized by Sri Ramakrishna Engineering College; DHRUVA 2024 organized by Karpagam College of Engineering and SRISTI 2024 organized by Sri Ranganathar Institute of Engineering and Technology.
- ECE dept. students enthusiastically got involved in 6 cultural events held at Rathinam College.
- Diploma students excellently participated in various cultural events like "Shishta 2024" held at Sasurie Institutions; "Unitestia" held at United College of Arts & Science; "Ultinos Fest" held at Pioneer Institutions and "Infinitum 2024" held at CIT Sandwich Polytechnic College.

## **CLUBS:**

### **"Student Clubs: Where passions unite, potentials ignite"**

- As a pioneer to all clubs, Podcast Club casted its strong image as a unique icon and successfully streamlined 8 multidimensional activities for the betterment of the student community and exposed their hidden talents and skills in a wide range.
- On its succession, Ramanujan Initiative club successfully organized 5 arithmetic skill based activities for the students to enhance their math skills.
- Code Chase club efficiently organized an activity for the student community to get in touch with the Future of Programming Languages that lead in demand.
- Eco club successfully conducted 4 activities and created a good impact amongst the youngsters in casting awareness on Environmental issues.

- BIS club fruitfully created awareness regarding BIS concepts among the students.

### **FUNDING PROPOSALS SUBMITTED/ ACCEPTED:**

- CSE dept. submitted Funding proposals for CSIR (International Conference) and AICTE Vanni (National conference).
- ECE dept. submitted 7 funding proposals to TNSCST & DST-NSTEDB.
- EEE dept. submitted funding proposals to ICCSR, CSIR and DST-EDC for conducting 2 workshops and a seminar.
- EEE dept. fruitfully received Rs. 30,000/- from CSIR for conducting the Workshop on "Smart charging Bright future: Understanding battery management system in Electric Vehicle".
- Mech dept. submitted 3 Funding Proposals for conducting workshops and seminars.
- Civil dept. submitted 3 TNSCST Funded Student Project Proposals.

### **SPORTS:**

#### **"Sweat plus sacrifice equals success"**

- 6 students of CSE dept. won prizes in Athletics, Cricket and Volleyball tournaments.
- 4 students of ECE dept. bagged prizes in Anna University Zonal level Cricket tournament.
- Two students of EEE dept. won third prize in the Zonal level Cricket match.
- Students secured I position in Long Jump & III position in 100 mts. dash.
- In Covai TIES event (out of 23 engineering institutions), 3rd and 4th position in 200 mts. and 100 mts. dash respectively and 5th position in 1500 mts.
- 3 students from Mech dept. won prizes in Cricket and Athletics.
- Diploma students bagged prizes during the Sports meet at Pencak Silat District Level Competition conducted by AKT Academic School, Kallakurichi.

### **PLACEMENT:**

#### **"Success is where preparation and opportunity meet"**

- 62 students from both Engineering and Diploma streams successfully got Placements in Pricol Pvt. Ltd., Sanmina, Sakthi Gears, JS Autocast, LGB, Bestex Suppliers, Hindustan Foods Limited, Sri Ranganathar Industry, ZF Wind Power, Foxconn, Innovation Tech Pvt. Ltd., Elevate IT Systems and One-Yes Info Tech Solutions with the average package starts from 5 LPA to the highest package of 14 LPA.

### **MOU:**

#### **"Hands-on with advanced networks always brighten the path and go further beyond the limits"**

- CSE dept. successfully signed MOU with Praya labs and Pumo Techno Innovation for promoting research works in the demanded field of studies.
- As a milestone, EEE dept. signed 4 no. of MOUs with VI Micro System, 5K Car care system Pvt. Ltd., Government Industrial Training Institute and LITZ Technologies.
- By envisioning futuristic scope in the latest Civil streams, the dept. fruitfully signed MOU with Om Sai Builders for research in construction development.
- Diploma branch successfully signed MOU with 5K CAR PVT. LTD, Coimbatore.

The financial outlay for conducting all the events is about Rupees Forty Lakhs (Rs 40, 00,000/-). I thank our management for sanctioning the amount for the benefit of our student community.

All the achievements were possible because of the commitment of all concerned, the Management, Teaching and Non-teaching Staff and the Students. Let us all continuously strive and work together to make our Institution to become even more reputed in future.

**Thank you all!!! Have a great day!!!**