



# NEWSLETTER

## 01-01-2023 to 30-06-2023

# EEE Department

Peace be amplified, World be rectified





# OUR SOURCE OF INSPIRATION



DR. RAVURI VENKATASWAMY CHAIRMAN



RAVURI BALAJI VICE PERSON



DR. T. SUNILKUMAR REDDY



## ABOUT COLLEGE

**Sri Venkatesa Perumal College of Engineering (SVPP)**, established in 2001 in Puttur, Tirupati, Andhra Pradesh, is promoted by the Tamilian Education Academy. Spread over 25 acres, SVPP features well-ventilated classrooms, state-of-the-art labs, and extensive sports facilities. It is affiliated with Jawaharlal Nehru Technological University Anantapur (JNTUA), ISO 9001-2000 certified, approved by AICTE, and accredited by NAAC with an 'A' grade. The CSE, ECE, and EEE departments are accredited by NBA. SVPP offers 5 undergraduate courses (540 seats) and 7 postgraduate engineering courses (18 seats each), along with MBA (120 seats) and MCA (60 seats). The campus has WiFi, a central library with digital resources, and a fleet of 20 buses for transportation. Seventy percent of the faculty are ratified by JNTUA, ensuring distinguished and experienced educators.

SVPP provides industry-standard labs and workshops, and research centers equipped with the latest software. Strong industry links through MOUs with companies like Infosys, Cyient, Wipro, Zenopsys, and ERDL enhance students' learning and employment prospects. The college's focus on employment includes active support for internships. Strategically located on the Chennai-Bangalore Highway, SVPP is 20 minutes from Tirupati Airport, offering a lush, green, and pollution-free campus environment.

## VISION OF THE INSTITUTE

To emerge as a Center of Excellence for Learning and Research in the domains of Engineering, Technology, Computing and Management.

## MISSION OF THE INSTITUTE

- M1:** To provide congenial academic ambience with state-of-art resources for learning and research.
- M2:** Ignite the students to acquire self-reliance in the latest technologies.
- M3:** Unleash and encourage the innate potential and creativity of students.
- M4:** Inculcate confidence to face and experience new challenges.
- M5:** Foster enterprising spirit among students work collaboratively with technical Institutes/ Universities/Industries of National and International repute.

## VISION OF THE DEPARTMENT

The vision of Electrical & Electronics Engineering Department is dedicated for curving the youth as dynamic, competent, valued and knowledgeable professionals who shall lead the nation to a better.

## MISSION OF THE DEPARTMENT

- Providing quality education, student centered teaching – learning process and state of art infrastructure for professional aspirants hailing from both rural and urban areas.
- Imparting technical education that encourages independent thinking, develops strong domain of knowledge, hones contemporary skills and positive attitudes towards holistic growth of young minds.
- Evolving the department into a centre of academic and research excellence.

# MEET OUR ESTEEMED FACULTY

We are proud to introduce our distinguished faculty members, whose expertise and dedication drive our institution's excellence.

## Professors

Dr. G. Sreenivasan

Dr. G. Sabarinath

Dr. G. Sheshadri

## Associate Professors

**Mr. K. Siva Kumar**

Mr. K.Venkatapathi

Mr. S. Shanmugam

Mr. K. Kiran

Mr. M. Lokanadham

## Assistant Professors

Mr. J. Nagaraju

Mrs. N. Sushmitha

Mr. M. Harish

Mr. A. Rajesh

Mr. G.Vijay Kumar

Mr. D. Mohan

Mr. K. Janardhan

Mr. P. Dhanasekharan

Mr. K. Rajesh

Mr. S. Munisekhar

Mr. A. Naveen Kumar

Ms. P. Geetha

Mr. T. Pavan Kumar

Each of these individuals brings a wealth of knowledge and a passion for teaching, ensuring that our students receive the best education and mentorship. We are honored to have such a dedicated and talented team.

## Faculty Development Programs (FDP) Attended

Each of these individuals brings a wealth of knowledge and a passion for teaching, ensuring that our students receive the best education and mentorship. We are honored to have such a dedicated and talented team.

## IoT Machine Learning Applications to Engineering System

March 20-25, 2023

Explored integrating IoT and machine learning in engineering applications, attended by:

- Dr. K. Siva Kumar
- Mr. S. Shanmugam
- Mr. M. Lokanadham
- Mr. M. Harish

## Applications of MATLAB in Research Perspective 2023

June 21-26, 2023

Explored MATLAB applications in research, enhancing computational efficiency, attended by:

- Dr. G. Srinivasan
- Mr. K. Kiran
- Mr. S. Munisekhar
- Mr. T. Pavan Kumar

## Out Come Based Education and Research Strategies

June 10-15, 2023

Focused on integrating educational outcomes with research, attended by:

- Mr. K. Venkatapathi
- Ms. P. Geetha
- Mr. J. Nagaraju
- Mr. A. Rajesh

# Hands on Programmable Power Supplies and Loads

May 30-June 3, 2023

Provided practical experience in operating power supplies and loads, attended by:

- Dr. G. Sabarinath
- Dr. G. Sheshadri
- Mr. S. Shanmugam
- Mr. M. Lokanadham
- Mr. K. Janardhan
- Mr. J. Nagaraju
- Mr. D. Mohan
- Mr. A. Naveen Kumar

# Emerging Trends in Engineering Science and Management

February 12-13, 2023

Explored emerging trends in engineering science and management, attended by:

- Mr. M. Lokanadham

# Renewable Energy System Laboratory

February 5-9, 2023

Hands-on experience in designing renewable energy systems, attended by:

- Mr. A. Rajesh

# Modern Technologies for Grid Integration of Renewable Energy Sources

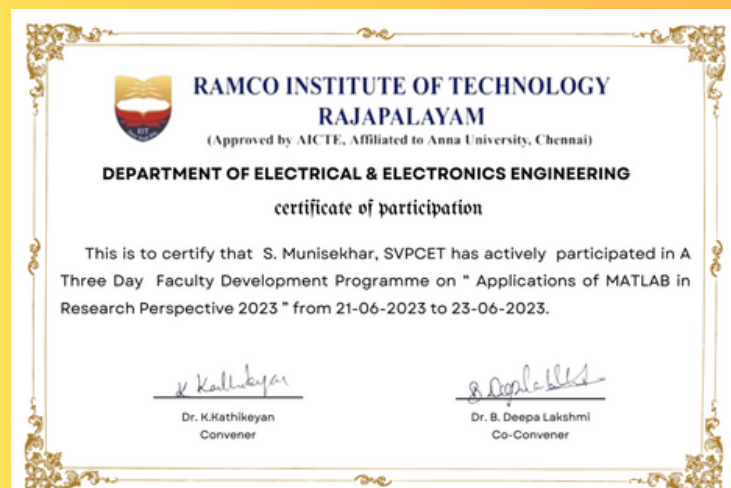
March 14-18, 2023

Examined advanced technologies for integrating renewable energy into grids, attended by:

- Dr. G. Srinivasan
- Mr. S. Shanmugam
- Mr. K. Kiran
- Mr. G. Vijay Kumar

These explanations provide a concise overview of each FDP topic, highlighting their significance and the faculty members who attended each program.

One of the Certificates are attached here for reference:





# Successful Completion of Alcohol Sensing Alert System Project (Funding Project)

## PROJECT OVERVIEW

We are pleased to announce the successful completion of a remarkable project titled "**A Multi Functional Solar PV System and Grid Based on Board Converter for Electric Vehicles.**" This innovative project was led by Professor J. Nagaraju during the 2023-24 academic year and aimed to advance the integration of solar photovoltaic systems with electric vehicle grids.

## FUNDING AND SUPPORT

The project was generously funded by EUTECH INSTRUMENTS with a grant amounting to ₹34,000. The research was conducted from 21/10/2022 to 27/04/2023.

## IMPACT AND FUTURE PROSPECTS

This innovative system aims to reduce the incidence of drunk driving, thereby contributing to safer roads. The successful implementation of this technology could pave the way for widespread adoption in vehicles, enhancing public safety.

# Successful Completion of Multilevel Inverter Topology Project (Funding Project)

## PROJECT OVERVIEW

The project "Maximum Voltage Levels and Minimum DC Sources in a New Multilevel Inverter Topology," directed by S. Munisekhar, was conducted during the 2022-23 academic year. This research focused on improving inverter technology for better power efficiency and stability.

## IMPACT AND FUTURE PROSPECTS

The advancements in multilevel inverter technology developed through this project hold promise for more efficient power conversion and distribution. These improvements can benefit a wide range of applications, from industrial systems to renewable energy installations.

## FUNDING AND SUPPORT

This project received funding from PHYSITECH POWER STEMS with a grant of ₹35,000 and was carried out from 09/11/2022 to 15/03/2023. The financial backing was essential for the project's successful execution.

## Industrial Visits: Bridging Academic Knowledge with Practical Experience

In our commitment to provide students with hands-on industry experience, we organized several industrial visits during the academic year 2022-23. These visits are designed to bridge the gap between theoretical concepts and their practical applications, offering students valuable insights into industry operations.



### Visit to Srisailem Dam West, Kurnool

On 17th April 2023, students of II B.TECH EEE visited the Srisailem Dam West in Kurnool. This visit was attended by 46 students, providing them with an in-depth understanding of hydroelectric power generation and dam operations.

These industrial visits play a crucial role in enriching our students' practical knowledge and aligning their academic curriculum with real-world industry practices.

## Guest Lectures: Insights from Industry Experts

In the academic year 2022-23, our department organized several guest lectures to enhance the knowledge and skills of our students.

### Analog Circuit Design or Internet of Things:

Conducted from March 19-20, 2023, this lecture was intended for II Year students, with 46 participants in attendance.



This event was instrumental in providing our students with valuable insights and practical knowledge in their respective fields.



# Faculty Consultancy and Corporate Training Highlights

## Mr. K. Venkatapathi:

Mr. K. Venkatapathi engaged in a consultancy project with Hi-Q Test Equipment Pvt. Ltd., located in Railway Colony, Cherlapalli, Secunderabad, 500051. This project, which ran from 4th February 2023 to 8th May 2023, generated ₹67,000.00. His contributions were instrumental in improving their testing equipment processes.

**We commend our faculty for his dedication and expertise in contributing to industry advancements.**

## Highlights from Our Recent Seminars

We are pleased to share highlights from our recent seminars, which have provided invaluable learning opportunities for our students.

### Seminar on Current Trends in Smart Grid

- **Date:** May 10, 2023
- **Expert:** Mr. S. Ganapathi, Superintendent Engineer (Rtd.), APTRANSCO
- **Student Participation:** 55 students (18 from Electrical Engineering + 37 from Computer Science Engineering)

On May 10, 2023, a seminar on current trends in smart grid technology was held, led by Mr. S. Ganapathi, a retired Superintendent Engineer from APTRANSCO. This event attracted 55 students, including 18 from the Electrical Engineering department and 37 from the Computer Science Engineering department. The seminar offered an in-depth understanding of the latest advancements and innovations in smart grid technology, preparing students for future industry challenges.



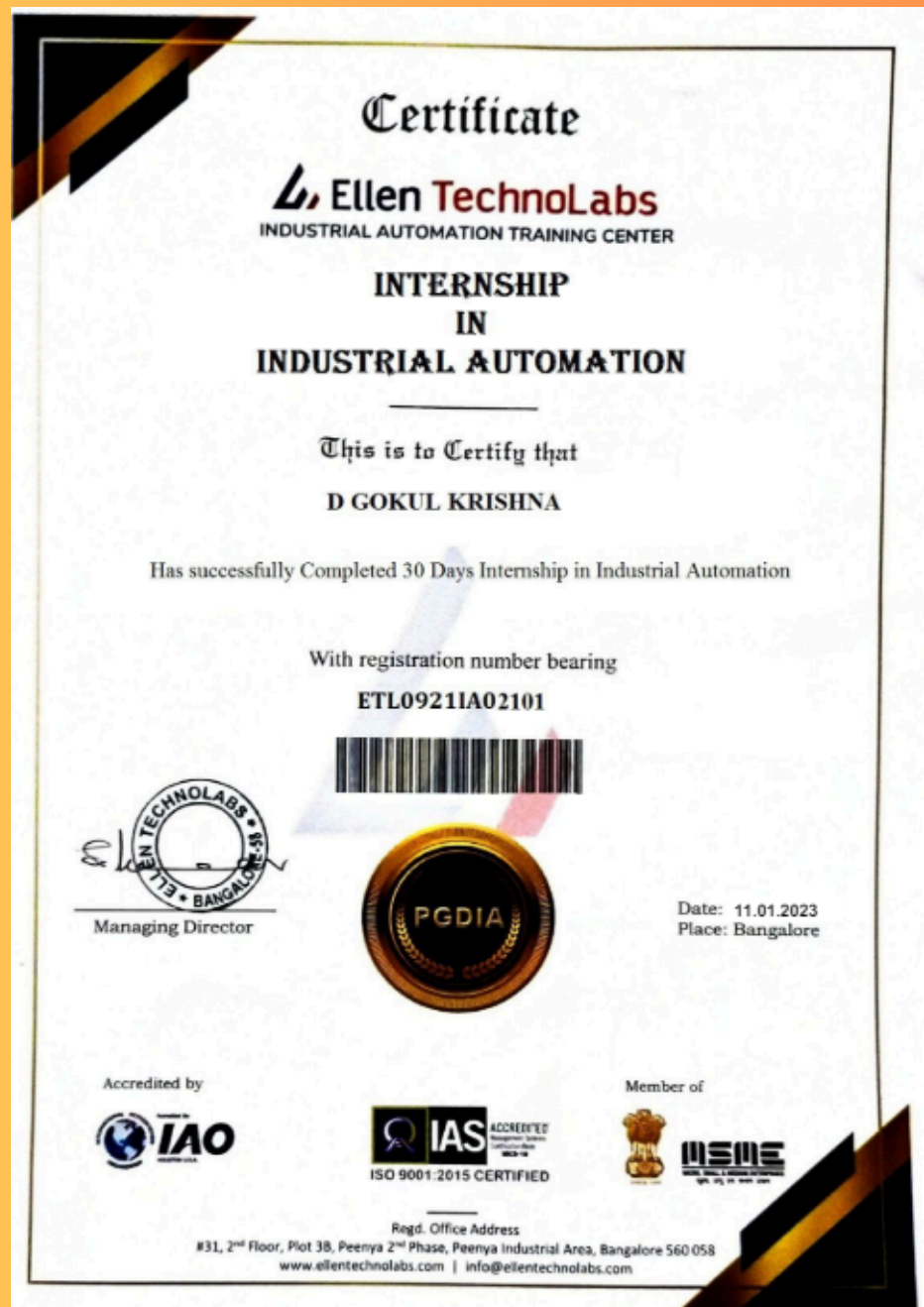
# Internship Participation Announcement

We are proud to announce that more of our students have successfully participated in various internships, gaining valuable hands-on experience in their respective fields.

## Industrial Automation Internship

From December 13th, 2022, to January 11th, 2023, the following students participated in an Industrial Automation internship organized by Ellen Techno Labs:

- AKULA SREEVIDHYA
- BOPPARAJUPALEM VARSHA
- BORRA GUNAVARDHANA REDDY
- DERANGULA SRAVAN
- JAGADABI SUNIL
- KASI VENKATESULU
- MADISETTY PARTHASARATHI
- MATHALI THARUN KUMAR
- N KARTHIK
- N ROSHINI
- NANNEPALLI PRAVEEN
- PADMARAJU CHANDANA
- SAKE BHUVANESWARI
- SAMIREDDY SURESH
- SHAIK ABDULLA
- SHAIK SAMIULLA
- THANNIRU SIREESHA
- V KESAVULU
- VEMBAKAM BHANU PRAKASH
- Y C MOUNIKA
- AALAMGADU NETHRA
- BUDDA PALLI NITHIN KUMAR
- CHAKALI MANISHA
- CHOPPA YASWITHA
- D GOKUL KRISHNA
- DHASARI SHIVA
- DODLA PRATAP KUMAR
- DUVVURI PAPA
- GALI MANIKANTA REDDY
- GOVINDA HEMANTH
- KADINTI PRAVEEN KUMAR
- LOMADA SANTHOS KUMAR
- MONDI KISHORE
- MORAMREDDY SIREESHA
- MULLA HUSSAIN BASHA
- PYDALA SRI VENKATA SAI
- RACHETI PRUDVIRAJ
- SETTY RAMANJANEYULU



We applaud the hard work and commitment of all these students and look forward to seeing the positive impact they will make in their future endeavors.

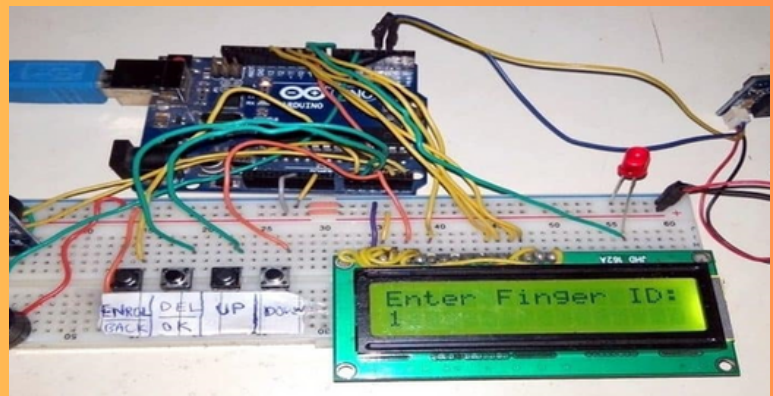


# Faculty Projects

## Fingerprint Based Attendance System Using Arduino

### Abstract:

Streamlining attendance procedures in educational institutions, this project employs biometric technology through a fingerprint-based attendance system using Arduino. Students mark attendance by placing their fingers on a sensor, ensuring accuracy and preventing proxy attendance. The data is instantly recorded, making the process efficient and foolproof. Previous projects using RFID and microcontrollers laid the groundwork for this advanced system, which enhances security and user satisfaction. This smart attendance system represents a significant step forward in automated attendance management.



## Strengthening the Academic-Industry Bridge

**In our ongoing commitment to integrate academic learning with industry demands, we have organized a series of impactful workshops and seminars. These initiatives aim to equip students with essential skills and knowledge while addressing current industry requirements and global challenges.**

### Industry Readiness and Modern Tools

To address the need for industry readiness and the use of modern tools, we conducted a 3-Day Workshop on **Programmable Logic Controller Design** from 24th April 2023 to 23rd May 2023. Led by Mr. P. Kumar, Trainer Lead from Andhra Pradesh, India, this workshop saw the participation of 45 students. The event was crucial in aligning with Program Outcomes (POs) 1, 2, 3, 5, 9, 11, and 12, as well as Program Specific Outcomes (PSOs) 1 and 2.



## Advanced Technology Integration

A similar focus on industry readiness and modern technology was evident in our 3-Day Workshop on **UV Design Using MATLAB** held from 13th April 2023 to 12th May 2023. Mr. V. Maheswar, also a Trainer Lead from Andhra Pradesh, India, led the workshop, which was attended by 33 students. This event aligned with POs 1, 2, 3, 5, 9, 11, and 12, and PSOs 1 and 2.



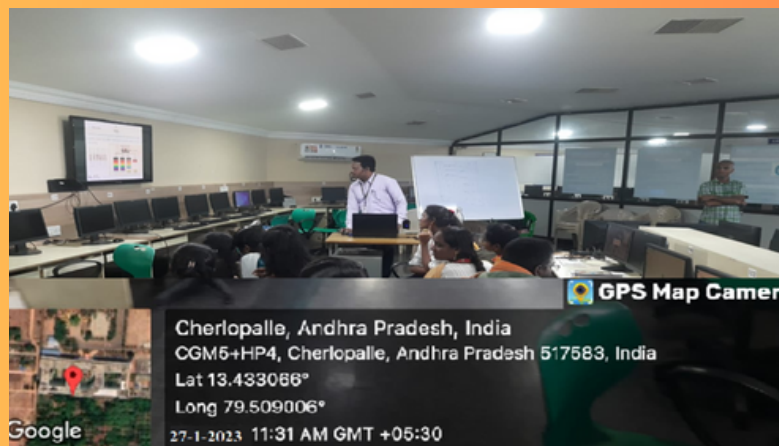
## Innovations in Electric Vehicles

Emphasizing recent advancements in electric vehicles, we organized a seminar on National Science Day, 28th February 2023. Titled "**Overview of Battery Management Systems for Electric Vehicles,**" this seminar was led by Dr. K. Rajini Kanth and attended by 33 students. The seminar addressed POs 1, 2, 3, 5, 9, 11, and 12, and PSOs 1 and 2.



## Power Electronics in Electric Vehicles

Further enhancing technical skills in line with industry needs, a 3-Day Workshop on the **Role of Power Electronics in Electric Vehicles** was held from 25th January 2023 to 27th February 2023. Dr. N. M. G. Kumar conducted this workshop, which saw the participation of 46 students. The event aligned with POs 1, 2, 3, 5, 9, 11, and 12, and PSO 2.

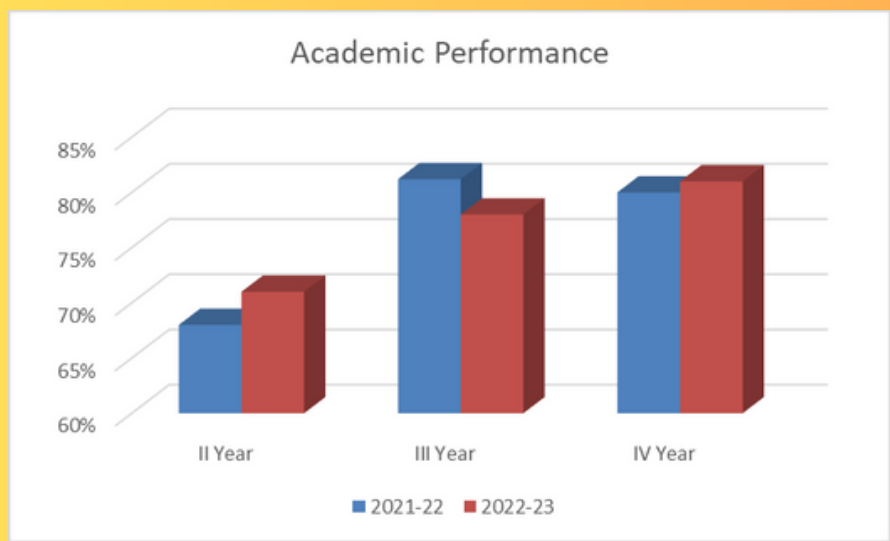


These initiatives underscore our dedication to equipping our students with the necessary skills and knowledge to excel in their careers while fostering a sense of responsibility towards global challenges.

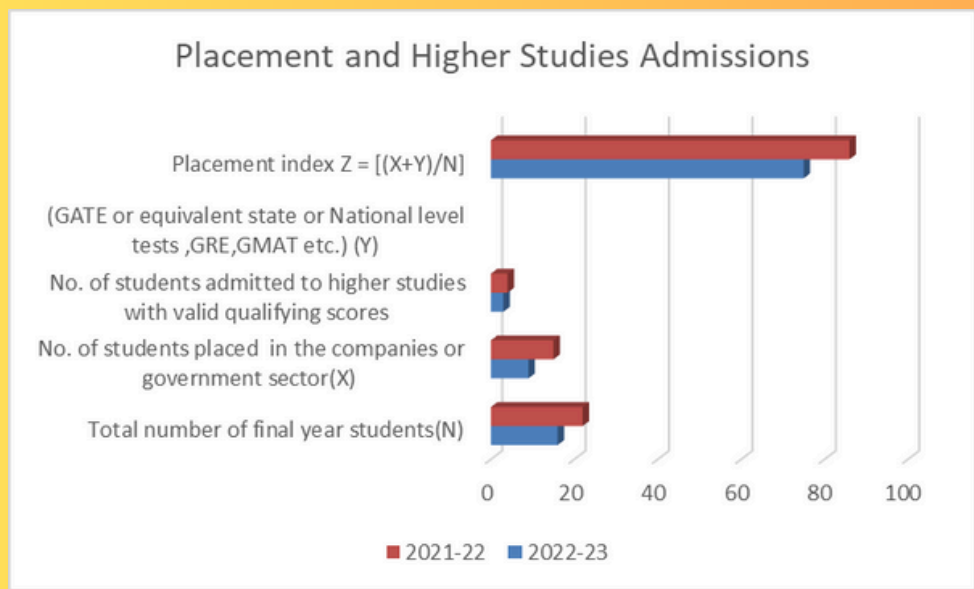


## Academic Performance Highlights (2022-23)

In the academic year 2022-23, our students have showcased commendable performance across all years. Among the highlights, the second-year students achieved an impressive 71% average, reflecting their dedication and hard work. Similarly, our third-year cohort maintained a strong academic record with an average of 78%, demonstrating consistent academic excellence. Notably, our final-year students excelled with an outstanding 81% average, underscoring their commitment to academic achievement as they prepare for the next phase of their careers. These results are a testament to the diligence and academic rigor upheld at our institution.



## Student Placement and Higher Studies Statistics



In the academic year 2022-23, out of our cohort of 16 final-year students, 9 secured placements in prestigious companies or government sectors, while 3 students continued their academic journey with admissions to higher studies. This reflects a Placement Index (Z) of 75%, showcasing our students' success in both career placements and further academic pursuits. Comparatively, in 2021-22 and 2020-21, our students achieved Placement Indices of 86% and 97%, respectively, underscoring our commitment to fostering holistic academic and professional development.

# TRAINING AND PLACEMENT ACTIVITIES

| S.No | Date                           | Name of the Training/Event                              | Name of the organization/Resource Person                    |
|------|--------------------------------|---|---|
| 1    | 06.02.2023<br>to<br>16.02.2022 | Verbal Training   | Mr. A. Raghuram<br>Mr. Rajiv Dayal Singh                    |
| 2    | 25.02.2023                     | Beyond Borders: Study Abroad<br>Op )01tunities Unveiled | Kautilya, Tirupati  |
| 3    | 13.03.2023<br>to<br>18.03.2023 | Programming with Python                                 | Mr. Satyanarayana<br>Mr. V Vishnu Vardhan                   |
| 4    | 17.04.2023<br>to<br>22.04.2023 | Aptitude Training (Reasoning<br>Ability)                | Mr. M. <u>Sambaraju</u><br>Mr. A. Sukumar<br>Ms. N. Alekhya |
| 5    | 06.05.2023                     | The Industry Exchange: Building<br>Connections          | Mr. K Siva, Cognizant                                       |





# SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING & TECHNOLOGY

AUTONOMOUS|NBA|NAAC  
PUTTUR - 517 583



## OUR RECRUITERS:

