

# EEE DEPARTMENT

NEWSLETTER - 01/01/2021 TO 30/06/2021



## OUR SOURCE OF INSPIRATION



**DR. RAVURI VENKATASWAMY CHAIRMAN**

**RAVURI BALAJI VICE CHAIRMAN**

**DR. T. SUNILKUMAR REDDY PRINCIPAL**

## 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. N. Vasu

Dr. R. Sivasubramanian

Dr. G. Sheshadri

### Associate Professor

Mr. K. Vijaya Bhaskar

Mr. KMD. Rajesh Babu

### Assistant Professors

**Mrs. S. Lakshmi Devi (HOD)**

Mr. M. Lokanadham

Mr. K. Kiran

Mr. J. Nagaraju

Mr. K. Venkatapathi

Mr. A. Rajesh

Mr. A. Naveen Kumar

Mr. S. Shanmugam

Mr. M. Chetan

Mr. S. Venkat Rao

Mr. K. Shafi

Mr. G. Krishna Deekshith

Ms. MH. Divya

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.

## SUCCESSFUL COMPLETION OF DUAL AXIS SOLAR POWER TRACKING SYSTEM PROJECT (FUNDING PROJECT)

### Project Overview:

We are delighted to announce the successful completion of the project "Implementation of a Dual Axis Solar Power Tracking System," led by J. Nagaraju during the 2020-21 academic year. This project focused on enhancing the efficiency of solar power systems through dual-axis tracking technology.

### Funding and Support:

The project was generously funded by FRAX ELECTROSYSTEMS with a grant amounting to ₹40,000. The research was conducted from 9/2/2021 to 20/05/2021.



### Impact and Future Prospects:

By utilizing dual-axis tracking, this project aimed to maximize the energy output of solar panels. The successful implementation of this technology could lead to more efficient solar power systems, contributing to the broader adoption of renewable energy sources.

# SUCCESSFUL COMPLETION OF SOLAR POWERED CAR CONTROLLED BY SMART TECHNOLOGY PROJECT (FUNDING PROJECT)

## Project Overview:

We are excited to share the successful completion of the project "Solar Powered Car Controlled by Smart Technology," led by A. Rajesh during the 2020-21 academic year. This project focused on integrating smart technology with solar-powered cars to enhance their functionality and efficiency.

## Funding and Support:

The project was funded by SHREE KRISHNA TRANSFORMERS with a grant of ₹35,000. The research was conducted from 17/12/2020 to 7/4/2021.



## Impact and Future Prospects:

By combining smart technology with solar power, this project aimed to develop more efficient and user-friendly solar-powered vehicles. The successful implementation of this technology could lead to advancements in green transportation, promoting environmental sustainability.

## INDUSTRIAL VISITS: BRIDGING THEORY WITH PRACTICE

To enhance the practical understanding of our students, we organized industrial visits during the academic year 2020-21. These visits provide students with real-world insights and experiences, complementing their academic studies.

## VISIT TO SRISAILAM DAM, KURNOOL

On 27th April 2021, students of III B.TECH EEE visited the Srisaillam Dam in Kurnool. This visit was attended by 22 students, offering them a comprehensive overview of hydroelectric power generation and the operational aspects of the dam.



These industrial visits are integral to our educational approach, ensuring that our students gain practical knowledge and a deeper understanding of industry processes.

## **GUEST LECTURES ORGANISED**

### **VHDL & Verilog Hardware Description Languages for Digital Design:**

Held from March 9-10, 2021, for II Year students with 16 participants. This lecture introduced VHDL and Verilog, two essential hardware description languages used in digital design, covering their syntax, features, and applications in designing complex digital systems.



## **FACULTY CONSULTANCY AND CORPORATE TRAINING HIGHLIGHTS**

### **Mr. K. Kiran:**

Mr. K. Kiran engaged in a consultancy project with Global Green Solutions, located at 7/22, S N Nagar, Near Venkatapuram Arch, Tirupati - 517501. This project ran from 23rd December 2020 to 22nd March 2021, generating ₹71,000.00. His contributions were instrumental in improving their green technology solutions.

### **Mr. S. Venkatrao:**

Mr. S. Venkatrao completed a consultancy engagement with Vijai Electricals Ltd., located off Raj Bhavan Road, Somajiguda, Hyderabad. The project spanned from 17th March 2021 to 16th June 2021, generating ₹70,000.00. His efforts focused on optimizing their electrical systems and operations.

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

# SEMINARS ORGANIZED

## One Day Seminar on Electrical Machine Design

**Date:** February 15, 2021

**Expert:** Dr. Jakeer Hussain, Ph.D., IIT Madras, Professor, VIT University, Vellore and Mr. S. Kedarnath, M.Tech, IIT Madras, MD & Design Engineer, Bhumitra Technologies, Tirupati

**Participants:** 61 (39 Faculty + 22 Students)

On February 15, 2021, a one-day seminar on Electrical Machine Design was held. The session featured insights from Dr. Jakeer Hussain, Ph.D., IIT Madras, Professor at VIT University, Vellore, and Mr. S. Kedarnath, M.Tech, IIT Madras, MD & Design Engineer at Bhumitra Technologies, Tirupati. The seminar attracted 61 participants, comprising 39 faculty members and 22 students. This event provided an in-depth exploration of electrical machine design principles and advanced techniques, greatly benefiting all attendees.



# IOT INTERNSHIP ANNOUNCEMENT

We are delighted to share that our students have participated in an Internet of Things (IoT) internship organized by Konzeptcad Solutions Pvt Ltd. This internship took place from January 3rd, 2021, to January 31st, 2021, providing our students with valuable hands-on experience in IoT technologies.

## Internship Participants:

- M. K. Bhanupriya (18G01A0206)
- Nandam Gowthami (18G01A0208)
- Thaivedu Apurvan (18G01A0209)
- Velligaram Sandeep (18G01A0211)
- A. Dilli Babu (19G05A0201)
- G. Munirakesh (19G05A0204)
- R. Karthik (19G05A0210)
- S. Srinivasulu (19G05A0211)
- Boddupalle Madhu Kumar (19G05A0212)
- Durga Sai (19G05A0213)



These students gained significant expertise in IoT applications, enhancing their technical skills and preparing them for future opportunities in the rapidly evolving field of Internet of Things.

We commend their dedication and hard work, and we look forward to seeing how they apply their newly acquired skills in their academic and professional careers.

# FACULTY PROJECTS

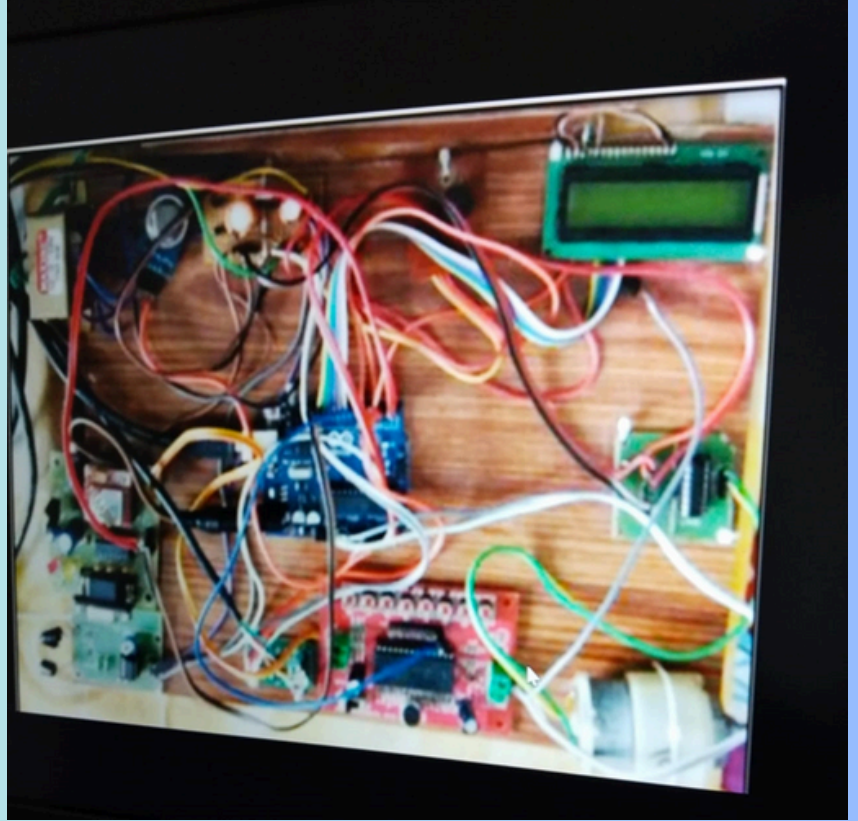
## IoT Based Fire Detection and Alert System

Project Lead: J. Nagaraju

Duration: January 18, 2021 - March 18, 2021

Budget: ₹12,000

**Summary:** This project focuses on developing an IoT-based system for fire detection and alerting. The system is designed to promptly identify fire hazards and send alerts, thereby enhancing safety and response times in critical situations.



## Voice Controlled Pick and Place Robot with Video Camera Using an Android Application

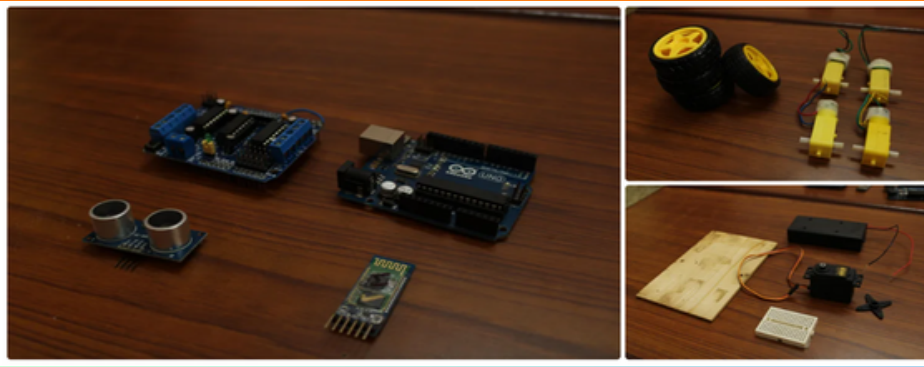
Project Lead: K. Venkatapathi

Duration: April 12, 2021 - July 20, 2021

Budget: ₹15,000

**Summary:** This innovative project involves creating a robot controlled by voice commands through an Android application. Equipped with a video camera, the robot can pick and place objects, showcasing advancements in robotics and automation.





## Arduino Based Automatic College Bell

Project Lead: M. Lokanadham

Duration: January 18, 2021 - April 21, 2021

Budget: ₹10,000

**Summary:** An Arduino-based system automates the college bell schedule, ensuring timely and precise ringing. This project aims to improve efficiency and reliability in managing school and college timetables.



## Secure Digital Voting System Based on Biometric Authentication

Project Lead: K. Kiran

Duration: April 19, 2021 - July 10, 2021

Budget: ₹14,000

**Summary:** This project develops a secure digital voting system incorporating biometric authentication to ensure voter identity verification. The system aims to enhance the reliability and security of the voting process by preventing fraudulent activities.



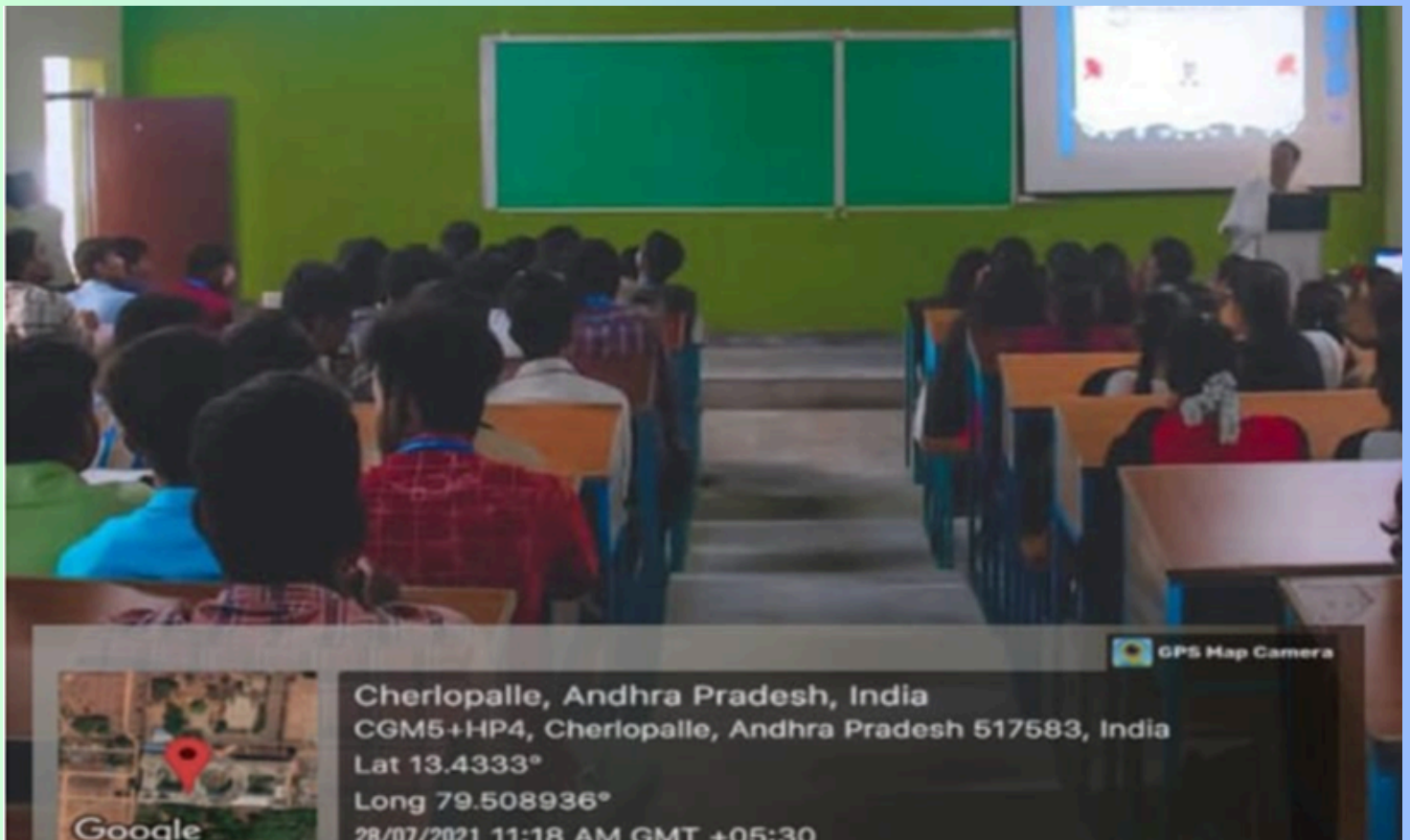
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CGM5+HP4, Cherlopalle, Andhra Pradesh 517583, India  
Lat 13.433287°  
Long 79.509139°

# ENHANCING TECHNICAL SKILLS: RECENT WORKSHOPS OVERVIEW

Our department has been proactive in organizing workshops aimed at enhancing technical skills and bridging the gap between theoretical knowledge and practical application. Here are some key workshops conducted recently:

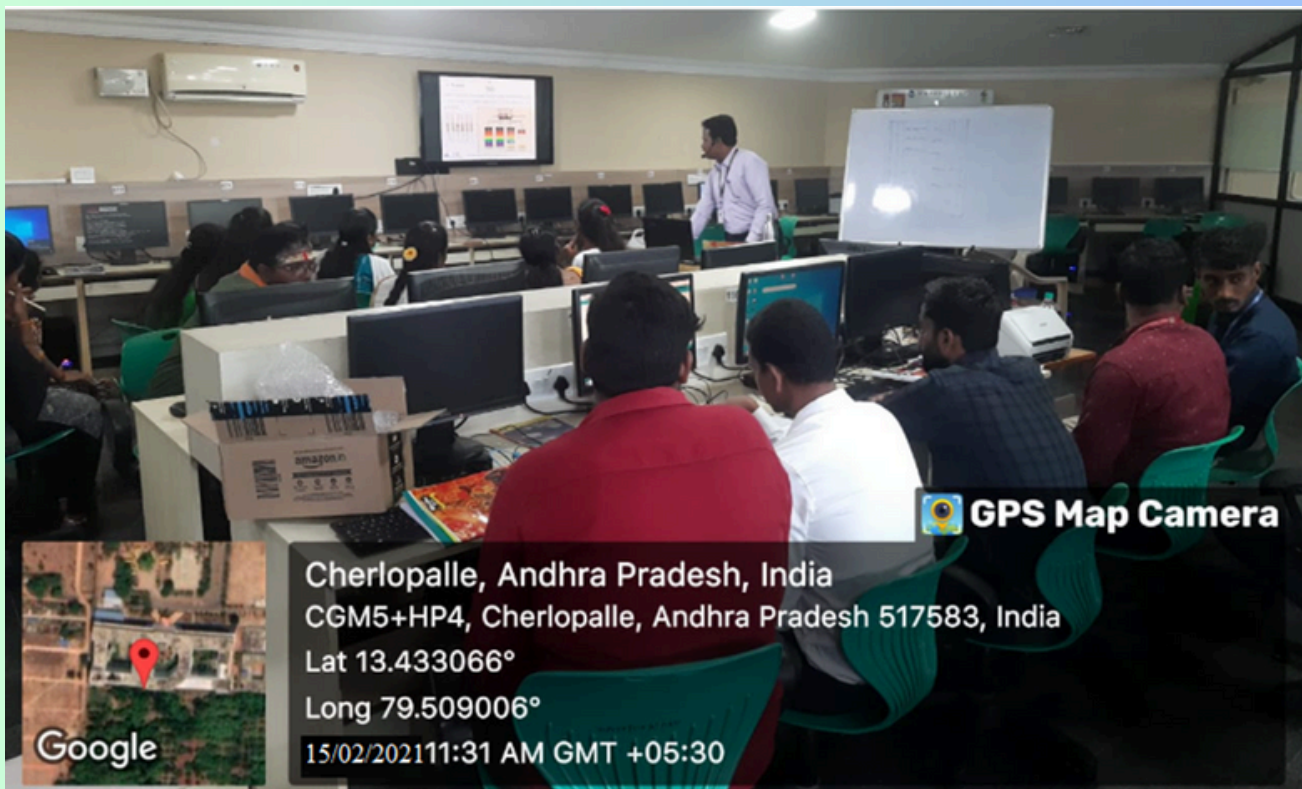
## Workshop on Research Methodology

- **Gap Addressed:** Essential skills for designing and conducting research
- **Action Taken:** Conducted from March 24 to March 26, 2021, led by Dr. V. Sujatha.
- **Number of Students Attended:** 39
- **Relevance to POs, PSOs:** PO1, PO2, PO3, PO5, PO9, PO11, PO12



## Workshop on Power Systems Optimization Techniques

- **Gap Addressed:** Hands-on experience in enhancing energy efficiency
- **Action Taken:** Conducted from February 15 to February 20, 2021, led by Dr. S. Lovelyn Rose, Associate Professor at PSG College of Technology, Coimbatore, Tamil Nadu, India.
- **Number of Students Attended:** 39
- **Relevance to POs, PSOs:** PO1, PO2, PO3, PO5, PO9, PO11, PO12, PSO1, PSO2



## Workshop on Embedded Controllers and its Application

- **Gap Addressed:** Fills a curricular gap by imparting practical skills in programming and designing systems with embedded controllers.
- **Action Taken:** Conducted from January 18 to January 25, 2021, led by Mr. P. Suresh Kumar, General Manager at Schneider Electric India Ltd, Bangalore, Karnataka, India.
- **Number of Students Attended:** 22
- **Relevance to POs, PSOs:** PO1, PO2, PO3, PO5, PO9, PO11, PO12, PSO1, PSO2



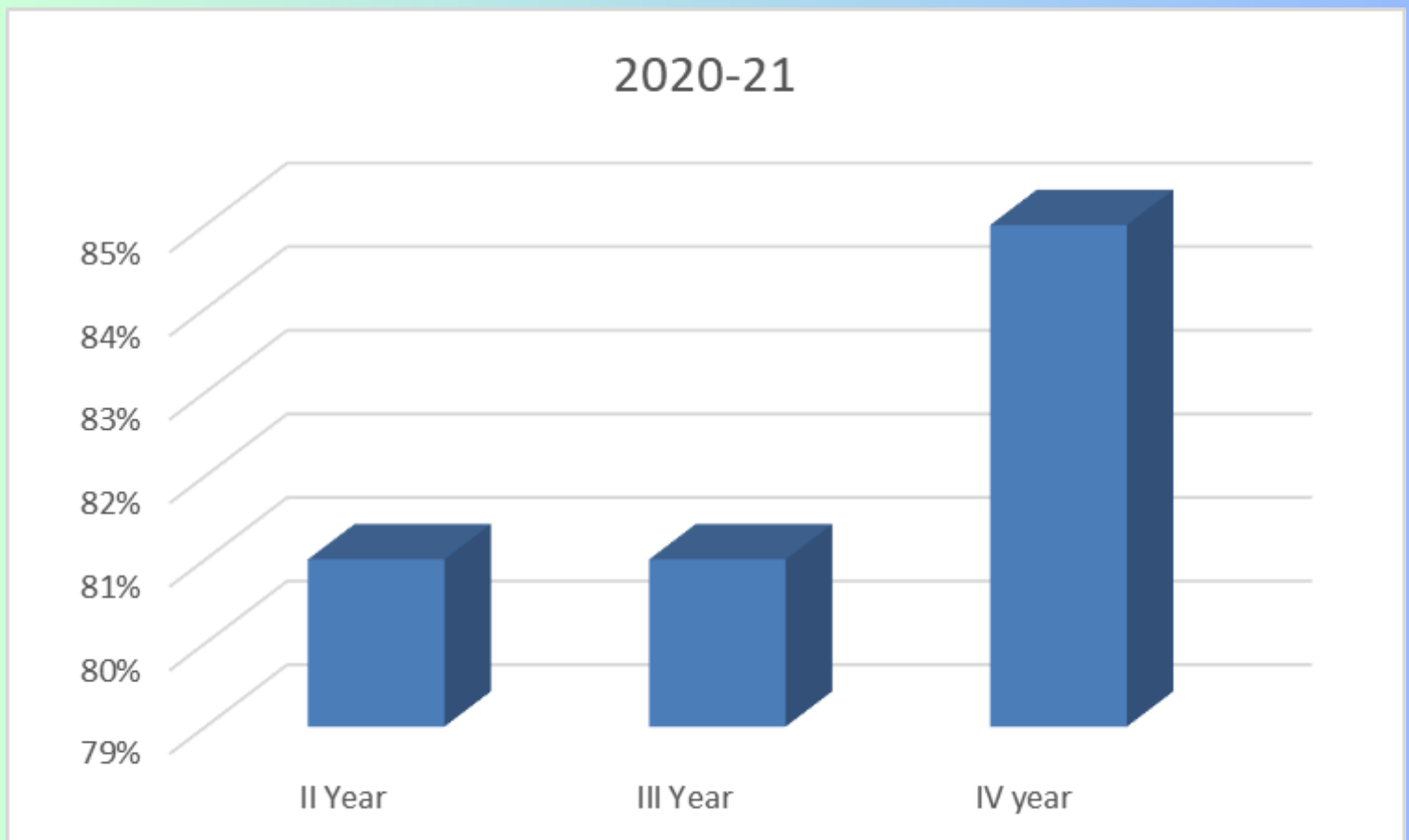
## Seminar on Electrical Machine Design

- **Gap Addressed:** Providing practical insights and skills in designing electric machines
- **Action Taken:** A one-day seminar held on January 4, 2021, led by Dr. Om Prakash.
- **Number of Students Attended:** 39
- **Relevance to POs, PSOs:** PO1, PO2, PO3, PO5, PO9, PO11, PO12, PSO1, PSO2



## ACADEMIC PERFORMANCE OVERVIEW

In the academic year 2020-21, our students demonstrated remarkable academic achievements across all years. The second-year and third-year students both achieved an impressive average of 81%, reflecting their consistent dedication and hard work. Our final-year students excelled even further, attaining an outstanding average of 85%. These results highlight the academic excellence and commitment to education that our institution fosters among its students.



## FACULTY DEVELOPMENT PROGRAMS

### RESEARCH CHALLENGES, OPPORTUNITIES IN SMART GRID WITH INTEGRATION OF ELECTRICAL VEHICLES

**Description:** Explored the challenges and opportunities in smart grid integration with electrical vehicles from May 8-12, 2021.

### **Attended by:**

- **Dr. N. Vasu**
- **Dr. R. Sivasubramanian**
- **Dr. G. Sheshadri**
- **Mr. S. Shanmugam**
- **Mr. S. Venkat Rao**
- **G. Krishna Deekshith**
- **M. Lokanadham**
- **K. Kiran**

## **ELECTRIC VEHICLES**

**Description:** Focused on electric vehicle technologies and advancements from February 8-12, 2021.

### **Attended by:**

- **Dr. N. Vasu**
- **K. Vijaya Bhaskar**
- **S. Lakshmi Devi**
- **K. Shafi**

## **ELECTRIC VEHICLES**

**Description:** Focused on electric vehicle technologies and advancements from February 8-12, 2021.

### **Attended by:**

- **Dr. N. Vasu**
- **K. Vijaya Bhaskar**
- **S. Lakshmi Devi**
- **K. Shafi**

## **MODERN TRENDS IN POWER ELECTRONICS AND THEIR APPLICATIONS**

**Description:** Examined modern trends in power electronics and their applications from June 28 to July 2, 2021.

### **Attended by:**

- **K. Vijaya Bhaskar**
- **A. Naveen Kumar**
- **A. Rajesh**

ONE OF THE CERTIFICATES ARE ATTACHED FOR THE REFERENCE.



**KPR** Institute of Engineering  
and Technology

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai - 25)

Accredited by NAAC with 'A' Grade

Arasur, Coimbatore - 641 407

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### CERTIFICATE OF APPRECIATION

This is to certify that Mrs. S. Lakshmi Devi has participated in A Five Day Faculty Development Programme On "Electric Vehicles" from 08.02.2021 to 12.02.2021.

  
Dr. K. Mohana Sundaram  
Convener



  
Dr. P. Pandiyan  
Co-Convener

## TRAINING AND PLACEMENT

| S.No | Date                     | Name of the Training/Event                                 | Name of the organization/Re-Source Person   |
|------|--------------------------|--|---|
| 1    | 18.01.2021 to 22.01.2021 | Wipro Company Specific Training                            | Talentio Solutions India Pvt. Ltd.,<br>Hyderabad<br>Mr. Rakesh<br>Mr. Joseph<br>Mr. Ranjith Kumar |
| 2    | 01.02.2021 to 07.02.2021 | Technical Training on Python Programming                   | Mr. Satya Narayana, Free Lancer   |
| 3    | 20.02.2021               | Virtual Session A Glimpse of Probabilistic Data Structures | Sri. Venkatababaji Sama, Principal Product Architect & VP, Acalvio                                |
| 4    | 22.02.2021 to 24.02.2021 | Infosys Company Specific Training                          | Talentio Solutions India Pvt. Ltd.,<br>Hyderabad<br>Mr. Somesekhar Reddy<br>Mrs. Pravalika        |
| 5    | 26.04.2021 to 30.04.2021 | Aptitude Training(Logical)                                 | Mr. M. Sambaraju  |



# SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING & TECHNOLOGY

AUTONOMOUS | Accredited by NAAC & NBA |

RVS Nagar,KN Road ,Puttur,Tirupati Dist,AP. | [www.svpcet.org](http://www.svpcet.org)



## OUR RECRUITERS:

