>>> NEWSLETTER <<<

EEE DEPARTMENT

01-01-2022 TO 30-06-2022

>>>

GREAT MINDS ARE NURTURED BY GREAT TEACHERS. A STUDENT'S SUCCESS IS A TEACHER'S VICTORY.

ELECTRICAL ENGINEERS: NO RESISTANCE CAN DROP OUR POTENTIAL.

<<<

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. Sabarinath
Dr. G. Sheshadri

Associate Professor

Mr. K. Siva Kumar (HOD)

Assistant Professors

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
Mrs. N. Sushmitha
Mr. M. Harish
Mr. G. Vijay Kumar
Mr. D. Mohan
Mr. K. Janardhan
Mr. P. Dhanasekharan

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 PROJECTS FUNDED

Our faculty members have been actively engaged in a variety of innovative projects during the academic year 2021-22. These projects, funded by esteemed agencies, highlight the dedication and expertise of our faculty in advancing technological research and development.

Hardware Modelling of LED Display Board Using LDR Control with Sinusoidal Type Solar PWM Inverter

- **Faculty Name:** K. Venkatapathi
- **Duration:** 06/01/2022 to 04/05/2022
- **Funding Agency:** ASIAN ENGINEERING & SERVICES
- **Amount:** ₹32,000

This project focuses on developing a hardware model for an LED display board controlled by a Light Dependent Resistor (LDR). The system integrates a sinusoidal type solar Pulse Width Modulation (PWM) inverter to enhance energy efficiency and sustainability.

Industrial Visit Highlights

On May 21, 2022, our III B.Tech EEE students had an enriching educational visit to **Srisailam Dam in Kurnool** during the 2021-22 academic year. Sixteen students participated in this visit, gaining valuable firsthand experience of the dam's engineering marvels and its crucial role in hydroelectric power generation. This visit provided an excellent opportunity for students to bridge the gap between theoretical knowledge and practical application. They observed the dam's operations, including the hydroelectric power plant, spillway mechanisms, and reservoir management. Such experiences are vital in underscoring the importance of renewable energy sources and the role of engineering in sustainable development, aligning with our commitment to offering experiential learning opportunities that enhance our rigorous academic curriculum.

Guest Lectures Organised

Network Resilience and Fault Tolerance Strategies:

Held from May 4-5, 2022, for II Year students with 37 participants. This lecture focused on enhancing network resilience and fault tolerance through redundancy, failover mechanisms, and error detection, illustrated by real-world case studies.

Faculty Consultancy and Corporate Training Highlights

Mr. K. Shiva Kumar:

Mr. K. Shiva Kumar successfully completed a consultancy project with **Sri Gowri Sankar Switch Gears Company.** The project took place from 2nd March 2022 to 6th June 2022, generating **₹68,000.00.** During this period, he provided valuable expertise to enhance their switch gear systems.

Internship Participation Announcement

We are excited to announce that a group of our dedicated students have successfully participated in various enriching internship programs organized by esteemed institutions.

Python Programming Internship

From December 21st, 2021, to January 10th, 2022, the following students participated in a Python Programming internship organized by Pantech eLearning:

- 19G01A0201 - A. JYOTHI PRAKASH
- 19G01A0203 - JUVVALAPATI MAHENDRA
- 19G01A0204 - KORUMULLA MOHANKRISHNA REDDY
- 19G01A0205 - M. SIVASANKAR
- 19G01A0206 - MANDATI PAVANKUMAR
- 19G01A0207 - MITTURU LAVAKUMAR
- 19G01A0208 - N. AMRUTHA

This internship provided these students with a comprehensive understanding of Python programming, enhancing their coding skills and preparing them for advanced projects and roles in the software industry.


Certificate No PS-APSSDC-MCD4W-1420

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

Skill AP
APSSDC

CERTIFICATE
OF PARTICIPATION

PANTECH SOLUTIONS
Technology Beyond The Dreams

NAME M SIVASANKAR
COLLEGE SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING AND TECHNOL

has Successfully Completed
20 Days Master Class on PYTHON PROGRAMMING
at Pantech e Learning Pvt Ltd, Chennai

From 20-12-2021 To 10-01-2021

M.Malaiappan Director Pantech e Learning
Dr. Ravi Gujjala Chief General Manager (Technical) APSSDC
Prof. Rama Koti Reddy Executive Director APSSDC
N Rangara Raju Managing Director APSSDC

Faculty Projects: Innovations in Technology

Aadhar Based Electronic Voting Machine Using Arduino(A.Rajesh)

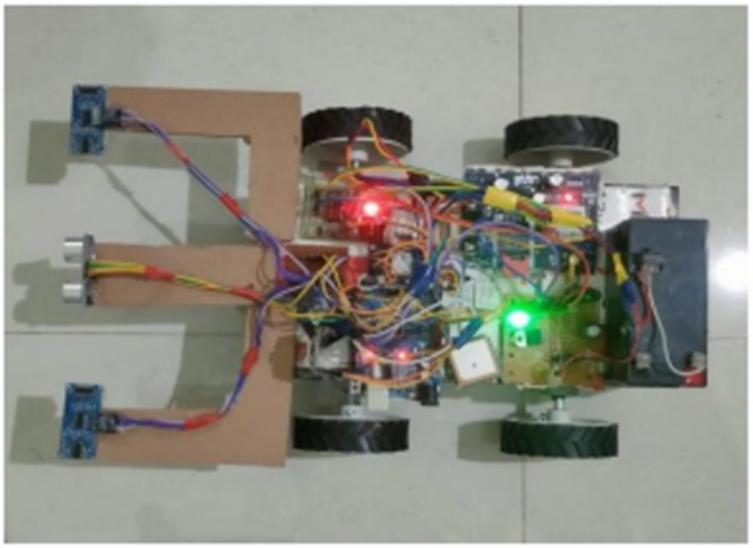
Abstract:

This project introduces an electronic voting machine enhanced with Aadhar-based biometric verification. Each voter's identity is verified via fingerprint recognition against a database before allowing voting. The system ensures transparency and autonomy, displaying final votes on an LCD for voter satisfaction.

Railway Track Fault Detection Using Raspberry Pi (K Kiran)

Abstract:

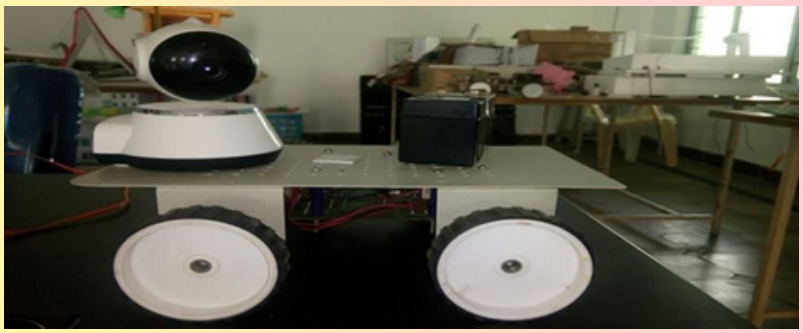
Ensuring railway track safety, this project utilizes Raspberry Pi and IoT to detect faults like cracks using RFID and webcam technologies. It aims to automate track inspection, enhancing operational safety and efficiency in rail transportation.



Smart Spy Robot (Dr. K Siva Kumar)

Abstract:

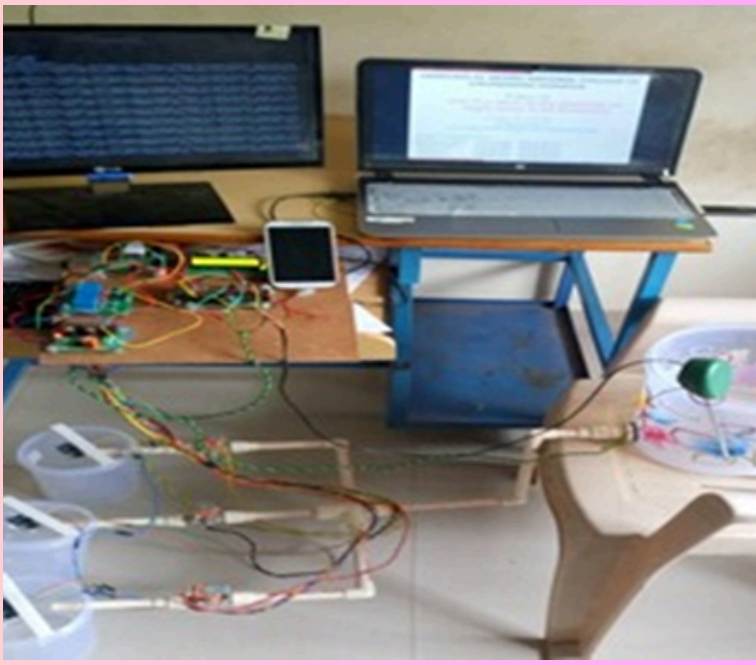
Integrating Android and Arduino technologies, this project develops a spy robot controlled via an Android app. Equipped with a camera and Bluetooth connectivity, the robot navigates and collects data within its operational range, demonstrating advancements in robotics and surveillance.



Real-Time Monitoring on Water Quality in IoT Environment (M Harish)

Abstract:

IoT technology is employed to monitor water quality efficiently and cost-effectively. This system leverages complex sensors and IoT infrastructure to collect and analyze environmental data remotely, minimizing the need for extensive field research.



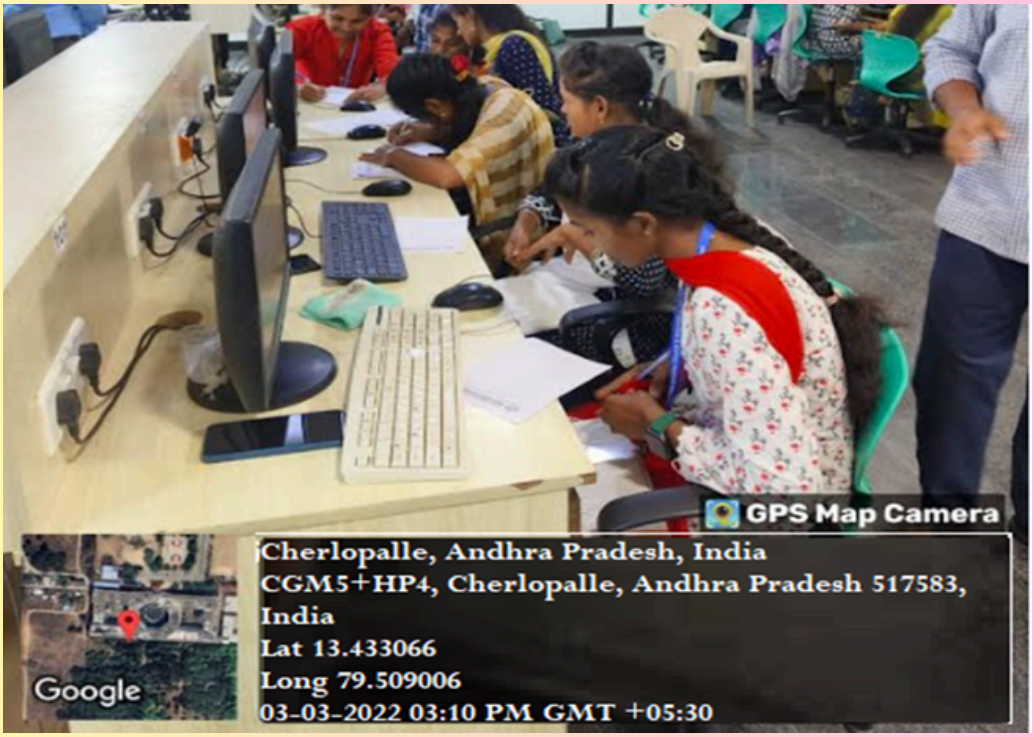
These projects highlight significant advancements in technology, addressing real-world challenges across various sectors from voting systems to environmental monitoring and rail safety. Each initiative showcases the faculty's commitment to innovation and practical application of cutting-edge technologies.

Enhancing Technical Skills: Workshops Overview

Throughout various workshops conducted recently, our department has focused on equipping students with essential skills aligned with industry demands. Here are some key workshops held:

Workshop on Circuit Simulation & Analysis using MATLAB & PSPICE

- **Gap Addressed:** Industry readiness & usage of modern tools and technologies
- **Action Taken:** Conducted from March 3 to March 5, 2022, led by **Mr. A. Naveen**, Technical Manager at Takeoff Technologies, Tirupati, Andhra Pradesh, India.
- **Number of Students Attended:** 22
- **Relevance to POs, PSOs:** PO1, PO2, PO3, PO5, PO9, PO11, PO12, PSO1, PSO2

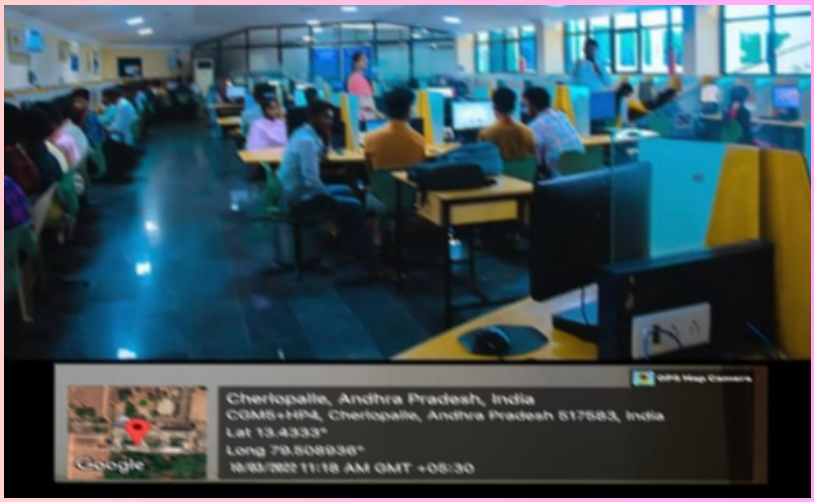


Workshop on Intellectual Property Rights and Entrepreneurship

- **Gap Addressed:** Technology learning and entrepreneurship
- **Action Taken:** Conducted from February 8 to February 10, 2022, led by Dr. P. Raja.
- **Number of Students Attended:** 50
- **Relevance to POs, PSOs:** PO1, PO2, PO3, PO5, PO9, PO11, PO12

Workshop on Skill Development in Data Science

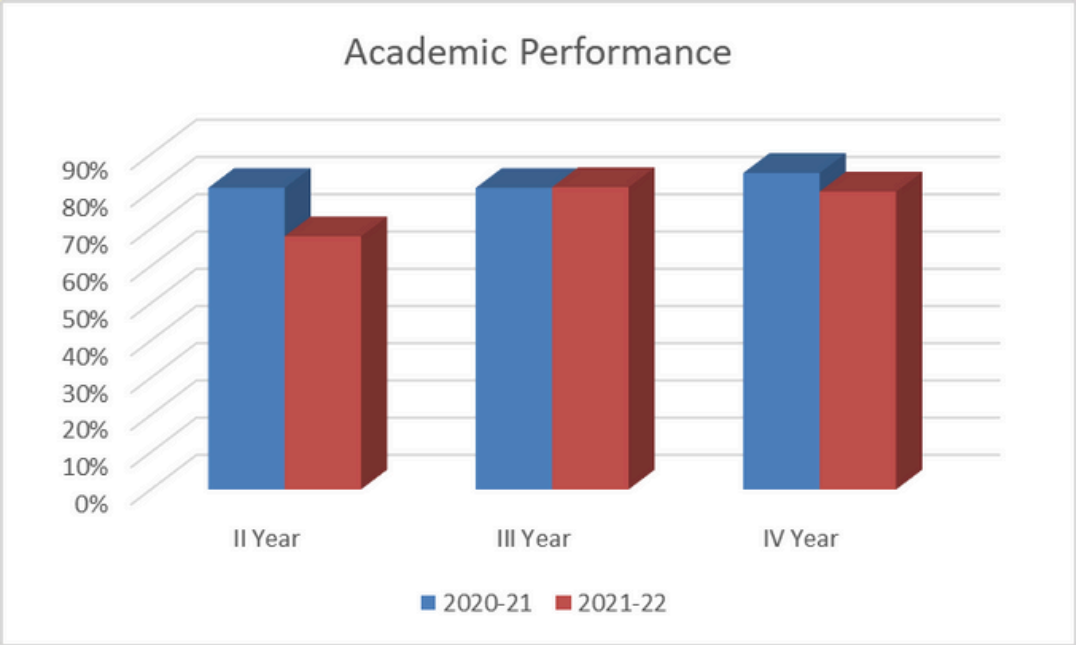
- **Gap Addressed:** Skill development in data science
- **Action Taken:** Conducted from January 4 to January 6, 2022, led by **Dr. K. Siva Kumar.**
- **Number of Students Attended:** 16
- **Relevance to POs, PSOs:** PO1, PO2, PO3, PO5, PO9, PO11, PO12



These workshops have been instrumental in providing students with practical skills and knowledge necessary to excel in their careers, ensuring they are well-prepared for the challenges of the modern industry landscape.

Academic Performance Overview

In the academic years 2020-21 and 2021-22, our students have consistently shown strong academic performance across all levels. In 2020-21, the second and third-year students achieved impressive averages of 81% in both years, while the final-year students excelled with an 85% average. In the subsequent year, 2021-22, our second-year students achieved a notable 68%, with third-year students maintaining a high average of 81.20%, and final-year students achieving an 80% average. These results reflect our commitment to nurturing academic excellence and preparing our students for successful futures.



FACULTY DEVELOPMENT PROGRAMS (FDP) ATTENDED

RESEARCH OPPORTUNITIES IN ELECTRICAL POWER ENGINEERING

Description: Explored research opportunities in electrical power engineering from March 23-27, 2022.

Attended by:

- Mr. K. Siva Kumar
- Mr. M. Lokanadham
- Mr. K. Kiran
- Mr. J. Nagaraju
- Mr. K. Venkatapathi
- Mr. A. Rajesh
- Mr. M. Harish
- Mr. G. Vijay Kumar

RECENT ADVANCEMENTS IN GENERATION AND CONTROL IN MODERN POWER SYSTEMS

Description: Explored recent advancements in power system generation and control from March 7-12, 2022.

Attended by:

- Mr. K. Siva Kumar
- Dr. N. Vasu
- Dr. R. Sivasubramanian
- Dr. G. Sheshadri
- Dr. G. Shabarinath
- Mr. S. Shanmugam
- Mr. M. Chetan
- Mr. S. Venkat Rao
- Mr. D. Mohan
- Mr. K. Janardhan
- Mr. P. Dhanasekharan

INNOVATIVE TECHNOLOGIES APPLICATION THROUGH UNNAT BHARATH ABHINAY

Description: Explored innovative technology applications through Unnat Bharath Abhinay from March 21-25, 2022.

Attended by:

- Mr. S. Shanmugam
- Mr. M. Harish

TRENDS IN ELECTRICAL VEHICLE DESIGN

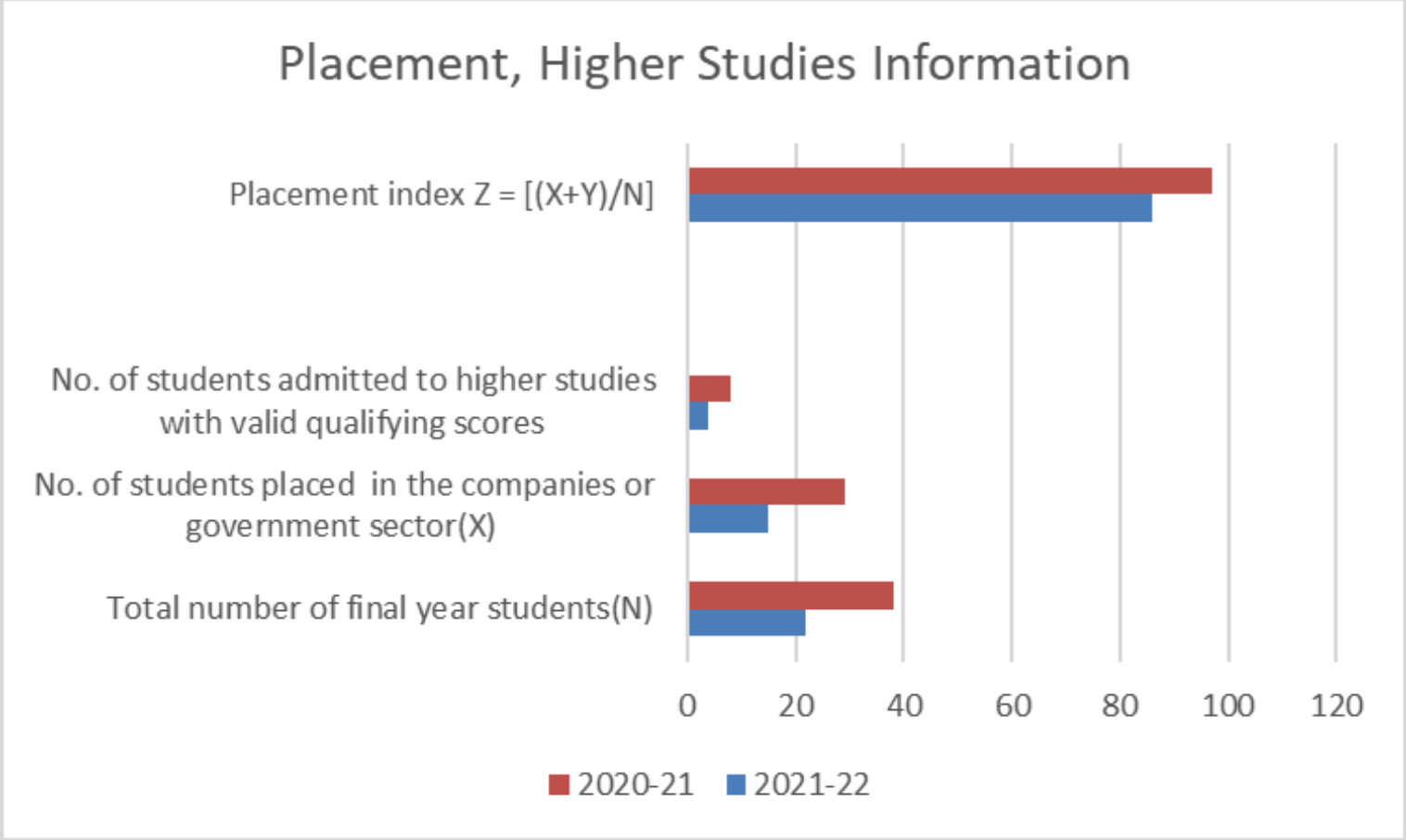
Description: Explored trends in electrical vehicle design from February 22-26, 2022.

Attended by:

- Dr. G. Sheshadri
- Dr. G. Shabarinath
- Mr. S. Venkat Rao

TRAINING & PLACEMENT ACTIVITIES

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., Hyderabad Mr. Rakesh Mr. Joseph 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., Hyderabad Mr. Somesekhar Reddy Mrs. Pravalika
5.	26.04.2021 to 30.04.2021	Aptitude Training(Logical)	Mr. M. Sambaraju



https://svpcet.org

SRI VENKATESA PERUMAL
COLLEGE OF ENGINEERING & TECHNOLOGY

AUTONOMOUS | Accredited by NAAC & NBA |

RVS Nagar,KN Road ,Puttur,Tirupati Dist,AP. | www.svpcet.org

OUR RECRUITERS:

TCS TATA CONSULTANCY SERVICES · Tech Mahindra · wipro · accenture · Infosys

virtusa · HYUNDAI MOBIS · Mindtree · Mphasis The Next Applied

HEXAWARE · TQ