

# EEE DEPARTMENT

NEWSLETTER - 01/07/2020 TO 31/12/2020



## 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 SOLAR PV, BATTERY, AND DIESEL GENERATOR BASED EV CHARGING STATION PROJECT (FUNDING PROJECT)

### Project Overview:

We are pleased to announce the successful completion of the project "Implementation of Solar PV Battery & Diesel Generator Based Electric Vehicle Charging Station," led by P. Dhanasekaran during the 2020-21 academic year. This project aimed to develop a hybrid charging station combining solar PV, battery storage, and diesel generators.

### Funding and Support:

Funded by HI-Q TEST EQUIPMENT PVT. LTD with a grant of ₹30,000, the project ran from 23/11/2020 to 3/3/2021. This financial support was crucial for the project's success.



### Impact and Future Prospects:

The development of this hybrid charging station offers a sustainable and reliable solution for electric vehicle charging. The combination of solar power, battery storage, and diesel generators ensures continuous operation, promoting the adoption of electric vehicles.

## **GUEST LECTURES ORGANISED**

### **HVDC Converter Station Design and Construction Considerations:**

Held from September 25-26, 2020, for IV Year students with 38 participants. This lecture covered the design and construction of HVDC (High Voltage Direct Current) converter stations, focusing on key components, design challenges, and construction practices essential for efficient power transmission.



### **Integration of Renewable Energy Sources with Electrical Drive Systems:**

Conducted from October 9-10, 2020, targeting III Year students with 22 participants. The session explored how renewable energy sources, such as wind and solar, can be integrated with electrical drive systems, highlighting the benefits, technical challenges, and solutions for seamless integration.



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

### **Dr. R. Siva Subramanian:**

Dr. R. Siva Subramanian successfully completed a consultancy project with Physitech Power Systems Pvt. Ltd., located at Padma Plaza, New Bhoiguda, Secunderabad, Telangana, 500003. The project took place from 15th September 2020 to 18th December 2020, generating ₹63,000.00. During this period, he provided valuable insights and expertise to enhance their power systems.

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

# SEMINARS ORGANIZED

## Seminar on Automatic Sun Tracking System

**Date:** August 22, 2020

**Expert:** Mr. Naveen, Skill Developer, Takeoff, Tirupati

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

On August 22, 2020, we conducted a seminar on the Automatic Sun Tracking System. The session was led by Mr. Naveen, a skill developer from Takeoff, Tirupati. The seminar was attended by 61 participants, including 39 faculty members and 22 students. The event provided a comprehensive understanding of the technology and its practical applications, enhancing the knowledge and skills of the attendees.



# MACHINE LEARNING INTERNSHIP ANNOUNCEMENT

We are excited to announce that several of our students have successfully completed a Machine Learning internship organized by Frulix. This internship took place from July 15th, 2020, to August 14th, 2020, offering our students valuable insights and hands-on experience in the field of Machine Learning.

## 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 have demonstrated exceptional dedication and enthusiasm, gaining significant expertise in Machine Learning algorithms, data analysis, and model development. This experience has equipped them with the skills required to tackle complex real-world problems using Machine Learning techniques.

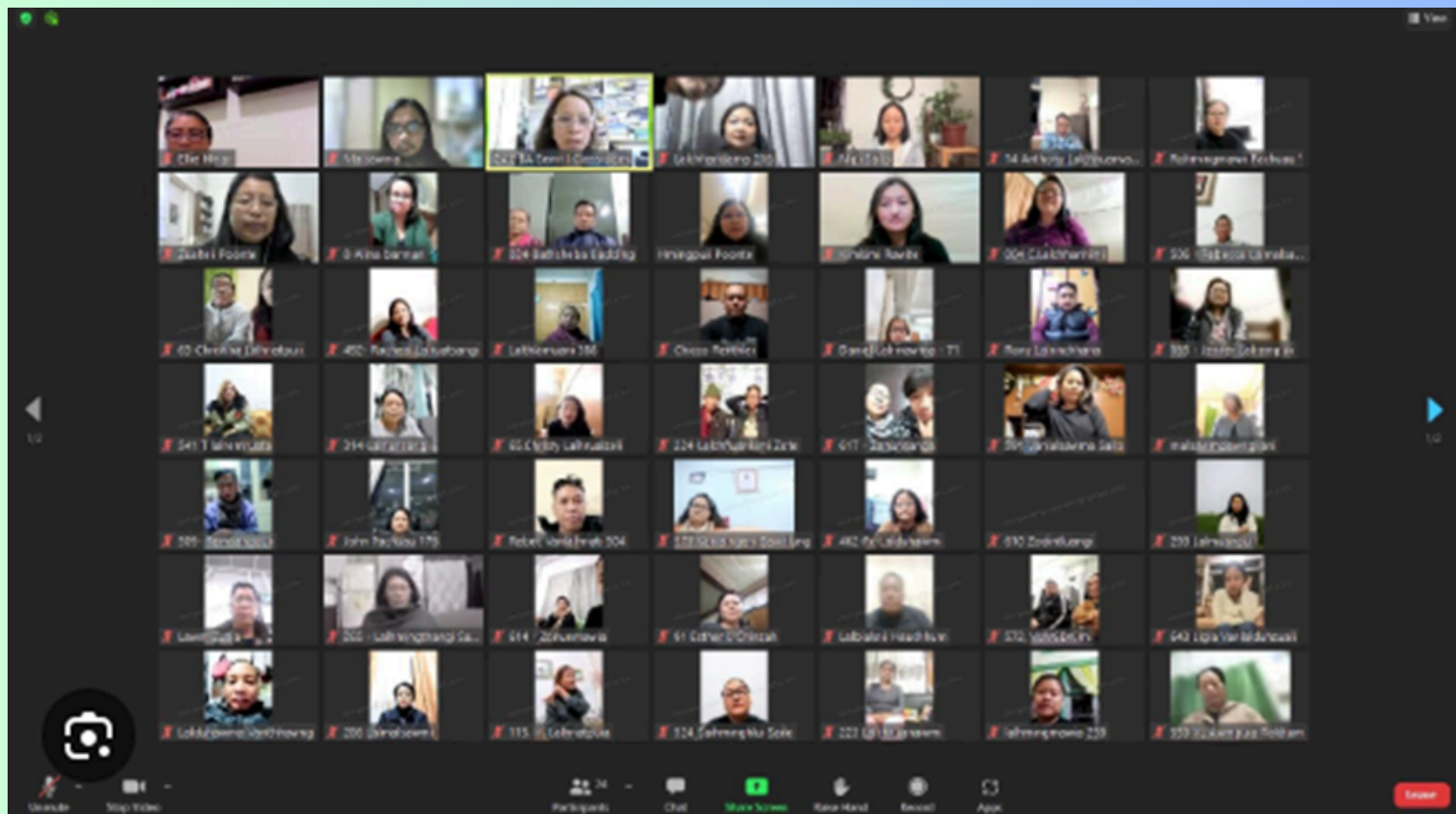
We congratulate all the participants on their achievements and look forward to their continued success in their academic and professional journeys.

# 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 Genetic Algorithm

- **Gap Addressed:** Practical experience in optimization techniques
- **Action Taken:** Conducted from November 18 to November 20, 2020, led by Dr. K. Janardhanreddy.
- **Number of Students Attended:** 39
- **Relevance to POs, PSOs:** PO1, PO2, PO3, PO5, PO9, PO11, PO12, PSO1, PSO2



## Workshop on Biomedical Instrumentation

- **Gap Addressed:** Enhancing understanding of the application of engineering principles in healthcare
- **Action Taken:** Conducted from August 17 to August 22, 2020, led by Dr. N.M.G. Kumar, Professor at Sree Vidyanikethan Engineering College, Andhra Pradesh, India.
- **Number of Students Attended:** 16
- **Relevance to POs, PSOs:** PO1, PO2, PO3, PO5, PO9, PO11, PO12, PSO2



These workshops have significantly contributed to our students' practical knowledge and readiness for the challenges of the industry, ensuring they are well-prepared professionals in their field.



# NOTABLE VISITING/ADJUNCT FACULTY FOR THE ACADEMIC YEAR 2020-21

We are privileged to have had the expertise of distinguished professionals contributing to our academic endeavors during the 2020-21 academic year.

## **Mr. S.V. Mahesh Babu**

**Position:** Assistant Divisional Engineer (ADE)

**Title:** Power Systems Transmission Engineering

**Company:** APTRANSCO, Chittoor

### **Lecture Commitment:**

- **Weekly: 3 hours**
- **Monthly: 12 hours**
- **Total Duration: 16 weeks**
- **Total Instruction Time: 48 hours**

Mr. Mahesh Babu's extensive experience in the power transmission sector has provided our students with valuable insights into engineering practices crucial for the energy industry.

## **Mr. P.S. Vinod Kumar**

**Position:** Engineer III

**Title:** Recent Trends in Electrical Engineering

**Company:** Millennium Techno Soft Pvt. Ltd., Madhapur, Hyderabad

### **Lecture Commitment:**

- **Weekly: 3 hours**
- **Monthly: 6 hours**
- **Total Duration: 6 weeks**
- **Total Instruction Time: 18 hours**

Mr. Vinod Kumar's expertise in software development and technological innovations has enriched our students' understanding of cutting-edge engineering applications.

# **FACULTY DEVELOPMENT PROGRAMS**

## **CHALLENGES & OPPORTUNITIES IN ELECTRICAL ENGINEERING – A RESEARCH PERSPECTIVE**

**Description:** Examined challenges and opportunities in electrical engineering research from June 15-20, 2020.

### **Attended by:**

- **Dr. N. Vasu**
- **Dr. R. Sivasubramanian**
- **Mr. S. Shanmugam**
- **A. Naveen Kumar**

## **RECENT ADVANCES IN ELECTRICAL ENGINEERING**

**Description:** Reviewed recent advancements in electrical engineering from June 3-6, 2020.

### **Attended by:**

- **Dr. N. Vasu**
- **Dr. R. Sivasubramanian**
- **Mr. S. Shanmugam**
- **Dr. G. Sheshadri**
- **K.M.D Rajesh Babu**
- **J. Nagaraju**
- **K. Venkatapathi**
- **M. Chetan**
- **M.H. Divya**
- **K. Kiran**

## **DESIGN & DEVELOPMENT OF CONTROL STRATEGIES ON ELECTRICAL POWER APPLICATIONS**

**Description:** Focused on the design and development of control strategies for electrical power applications from December 7-12, 2020.

### **Attended by:**

- **Dr. G. Sheshadri**
- **Mr. S. Venkat Rao**
- **K. Vijaya Bhaskar**
- **S. Lakshmi Devi**
- **K.M.D Rajesh Babu**
- **G. Krishna Deekshith**
- **K. Shafi**
- **M.H. Divya**

## **ENERGY MANAGEMENT SYSTEMS**

**Description:** Explored energy management systems from June 8-13, 2020.

### **Attended by:**

- **Dr. G. Sheshadri**
- **Mr. S. Venkat Rao**
- **K. Vijaya Bhaskar**
- **S. Lakshmi Devi**
- **G. Krishna Deekshith**
- **M. Lokanadham**
- **K. Shafi**
- **M.H. Divya**
- **A. Rajesh**

## **APPLIED RESEARCH IN ELECTRIC VEHICLE TECHNOLOGIES**

**Description:** Focused on applied research in electric vehicle technologies from June 15-20, 2020.

### **Attended by:**

- **M. Lokanadham**
- **K. Kiran**
- **A. Rajesh**
- **K. Venkatapathi**

## **GREEN TECHNOLOGY AND SUSTAINABILITY ENGINEERING**

**Description:** Explored green technology and sustainability engineering from December 14-18, 2020.

### **Attended by:**

- **Mr. S. Venkat Rao**
- **J. Nagaraju**
- **M. Chetan**

## **TECHNOLOGICAL ADVANCES IN POWER SWITCHING CONVERTERS FOR RENEWABLE ENERGY SOURCES AND FUEL CELL TECHNOLOGY FOR E-VEHICLES**

**Description:** Reviewed technological advances in power switching converters and fuel cell technology for e-vehicles from June 1-5, 2020.

### **Attended by:**

- **K. Venkatapathi**
- **A. Naveen Kumar**

**SOME OF THE CERTIFICATES ARE ATTACHED FOR THE REFERENCE.**



# GUDLAVALLERU ENGINEERING COLLEGE

Department of Electrical & Electronics Engineering

## CERTIFICATE OF APPRECIATION

This is to certify that K. Venkatapathi, (SVP CET) has participated in A One Week National Level Faculty Development Programme On "Applied Research in Electric Vehicle in Technologies" from 15-06-2020 to 20-06-2020.

Dr. B. Nithin Kumar  
Convener

P. Venkata Sai  
Co convener



# VEMU INSTITUTE OF TECHNOLOGY

Affiliated to JNTUA, Approved by AICTE

Accredited by NAAC with A+

Three B.Tech Programmes ( CSE, ECE & EEE ) are accredited by NBA, New Delhi  
ACCREDITED as A - GRADE by GOVT. of A.P., DEPARTMENT OF TECHNICAL EDUCATION  
Recognized under 2(F) & 12(B) UGC ACT. An ISO 9001:2015 Certified Institution

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## CERTIFICATE OF PARTICIPATION

This is to certify that Dr. N. Vasu, (SVP CET) has participated in A Five Day online Faculty Development Programme on "RECENT ADVANCES IN ELECTRICAL ENGINEERING" from 03-06-2020 to 06-06-2020.

Dr. A HEMA SEKSHAR  
CONVENER

M. MURALI  
CO-CONVENER

# TRAINING AND PLACEMENT

S.No	Date	Name of the Training/Event	Name of the organization/Re-Source Person
1	17.05.2020	SCENARIO OF EXAMINATION SYSTEM POST COVID-19	Dr. C. Sashidhar, Director of Evaluation, Jawaharlal Nehru Technological University, Anantapuramu (JNTUA)
2	25.05.2020	online webinar on CHALLENGES OF ENGINEERS AFTER COVID-19	Dr. K. Hema Chandra Reddy, Chairman, AP State Council of Higher Education (APSCHE)
3	04.06.2020 to 12.06.2020	Virtual Technical Training on C & DS	Mr. Satya Narayana, Free Lancer
4	14.06.2020 to 15.06.2020	Online 2 days Seminar on Forensic Science in Digital World & it's Opportunities	Sri Karthikeya Kumar, Cyber Security Advisor, Management Consultant, International Leadership Coach
5	18.06.2020 to 19.06.2020	Online- Resume building Courses	Seventh Sence Talent Solutions, Bangalore Mr. K Vinodh Prabhu Mr. A. Ravi Kiran
6	25.06.2020 to 27.06.2020	Virtual Mock Interviews	Seventh Sence Talent Solutions, Bangalore Mr. Ramesh Babu Ms. Priyanka Mr. Shyam Sundhar
7	06.07.2020 to 11.07.2020	Aptitude Training (Quants)	Mr. M. Sambaraju
8	18.07.2020	One day webinar on Digital Transformation Trends ABC's Are Changing	Sri Nagarjun Malladi, Delivery Head – Life Sciences, Tech Mahindra
9	25.07.2020	Virtual Session on REBUILD A SUSTAINABLE CAREER	Sri. N. B. Harshavardhan Reddy
10	03.08.2020 to 07.08.2020	TCS Company Specific Training- Online	Talentio Solutions India Pvt. Ltd. Hyderabad
11	10.08.2020 to 16.08.2020	Verbal Training	Mr. K Srinivasa Reddy, ACE Academy
12	27.08.2020 to 29.08.2020	Three days online Seminar on Salesforce-Admin & Development	Mr. Nagendra Kumar, Technology Manager, Deloitte
13	06.09.2020 to 10.09.2020	CTS Company Specific Training- Virtual	Talentio Solutions India Pvt. Ltd. Hyderabad
14	26.09.2020	Online Awareness session on Benefits of IEEE Membership	Dr. C Harinatha Reddy, Vice Chair PES/IAS/PELS It Chapter IEEE Section, Hyderabad
15	22.11.2020	One day webinar on Introduction & Functioning of IOS & MacOS	Sri. Mounish, CEO-Infinite Apple & Viroclean Solutions



# SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING & TECHNOLOGY

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



## OUR RECRUITERS:

