

REPORT OF THE ONE-DAY SEMINAR

Name of Centre / Overseas Chapter:	The Institution of Engineers (India), Andhra Pradesh State Centre
Title of Activity:	One Day Seminar on "Big Data Analytics for Smart Grids: Challenges and Opportunities"
Activity under Divisional Board	Electrical Engineering Division Board
Date:	18th July, 2025
Venue:	Vasireddy Venkatadri International Technological University (VVIT), Guntur



Photo of Inaugural Session with banner of IEI



Photo of Lightning the Lamp



Address by Convenor Prof. (Dr.) A V Naresh Babu



Address by Registrar Prof. (Dr.) Y Mallikarjuna Reddy



Address by Guest of Honor Prof. (Dr.) MLS Deva Kumar



Address by Chief Guest Dr. K Srinivas

Brief Details about the Programme:

The Institution of Engineers (India), Andhra Pradesh State Centre, in association with the School of Electrical and Electronics Engineering, Vasireddy Venkatadri International Technological University (VVITU), organized a one-day seminar on “**Big Data Analytics for Smart Grids: Challenges and Opportunities**” on 18-07-2025. The objective of the seminar was to explore the role of big data analytics in smart grids and how it transforms modern electrical networks. Eminent dignitaries from academia and industry inaugurated the event. The technical sessions covered grid operations, real-time data management, and data visualization tools like Power BI. The event witnessed participation from researchers, faculty, students and it served as a platform for technical exchange and learning from real-time case studies.

Dr. Srinivas Kavaturi, Chief Engineer, APSLDC-APTRANSCO graced this event as the Chief guest, Prof. (Dr.) M. L. S. Devakumar, Chairman IE(I), Andhra Pradesh State Centre as Guest of Honour, and Er. R. V. R. Santosh, Deputy Executive Engineer-APSLDC, as the keynote speaker. The chief guest addressed that “Big Data Analytics is crucial for smart grids as it enables real-time decision-making, predictive maintenance, and efficient integration of renewable energy for a more reliable and intelligent power system”. Er. R.V.R. Santosh said, “Smart grids integrate advanced communication and control technologies with traditional power systems to ensure efficiency, reliability, and sustainability. The deployment of millions of smart meters, sensors, and connected devices generates enormous volumes of data—referred to as Big Data—requiring advanced analytics for actionable insights.” In this Seminar, the IInd, IIIrd and IVth Year students of Electrical Engineering actively participated and gained insightful information regarding the significance of Big Data analytics for the smart grids. The Chief Guest, Guest of Honour and Keynote speakers are felicitated by University’s Honourable Chancellor Sri. Vasireddy Vidyasagar, Vice Chancellor Prof. Kodali Rambabu, and Registrar Prof. (Dr.) Y. Mallikarjuna Reddy.

Details of the Sessions:

Day-1 (Forenoon) Technical Sessions	<ol style="list-style-type: none">1. Lecture by: Er. R V R Santosh Topic: Overview of Grid Operations in AP State Load Dispatch Centre2. Lecture by: Er. R V R Santosh Topic: Case Studies of Grid Operations
Day-1 (Afternoon) Technical Sessions	<ol style="list-style-type: none">3. Lecture by: Dr. P. Ammi Reddy Topic: Concepts of Power BI-Data Analytics Tool4. Lecture by: Dr. P. Ammi Reddy Topic: Case Studies of Power BI-Data Analytics Tool



Technical Session -1 by **Er. R V R Santosh**



Technical Session -2 by **Er. R V R Santosh**



Technical Session -3 by **Dr. P. Ammi Reddy**



Technical Session -4 by **Dr. P. Ammi Reddy**

Valedictory & Conclusion:

Dignitaries were felicitated with Certificates of Excellence & Mementos. At the end, Professor (Dr.) A V Naresh Babu delivered the Vote of Thanks, followed by the National Anthem marking the close of the seminar.



Felicitation to Chief Guest **Dr. K Srinivas**



Felicitation to Guest of Honor **Prof. (Dr.) MLS Deva Kumar**



Felicitation to Resource Person **Er. R V R Sontosh**



Felicitation to Resource Person **Dr. P. Ammi Reddy**



Felicitation to Chancellor **Er. V Vidya Sagar** with Certificate of Excellence



Vote of thanks by Hon. Secretary, IEI APSC Prof. (Dr.) **A V Naresh Babu**



VVIT Student Chapter IEI Volunteers Group photo with dignitaries