

In our PES/IAS/PELS--Joint Chapter of IEEE Hyderabad Section the post Covid-19 Period is being effectively utilized through off-line activities that are conducted regularly in the year 2022. Since, August 2022,Our PES-Joint chapter started to organize various offline Physical events and gave thrust to conduct many IEEE-Distinguished Lecture Programs (DLPs). As a part of jt chapter activities the following are the activities done.

1. The PES jt chapter of Hyd Section in association with Hyderabad Institute of Technology & Management Sciences (HITAMS) college IEEE SB conducted a 3 day faculty development programme on “Recent Developments in Renewable Energy Technologies” during 28<sup>th</sup> – 30<sup>th</sup> July 2022. A total of 45 faculty and industry professionals attend the event out of which 14 are IEEE members. The event went on well and received good participation and good feedback. A snap shot of the event flyer is given below.

**CHIEF PATRON**  
Sri. PRASHANTH ARUTLA  
Chairman, HITAM

**PATRON**  
Dr. P RAJESH KUMAR  
Principal, HITAM

**CO-ORDINATORS**  
Dr. OP SURESH  
Professor & HOD(EEE)  
Dr. M SREERAMULU  
Professor & HOD(ME)

**ORGANIZING TEAM:**  
Mr. SV SATYANARAYANA  
Asst. Professor, HITAM  
Mr. M. CHIRANJIVI  
Asst. Professor, HITAM  
Mr. P. PRAVEEN  
Asst. Professor, HITAM  
Mr. Y ANIL REDDY  
Asst. Professor, HITAM

**REGISTRATION FEE:** ₹1000 /-  
**FOR IEEE MEMBERS:** ₹900 /-

**Account Holder Name:** Hyderabad Institute of Technology and Management  
**Bank Name:** South Indian Bank, Gouthbullapur Branch  
**Acc.No.:** 0547053000004269  
**IFSC Code:** SIBL0000547

**Registration link & Fee Payment:**  
[https://docs.google.com/forms/d/1EBu-C4bkqWcfr5\\_NHUmmvp4pNTYaxATI/95bsE6JLAQ/edit](https://docs.google.com/forms/d/1EBu-C4bkqWcfr5_NHUmmvp4pNTYaxATI/95bsE6JLAQ/edit)

**Organized by**  
**HITAM**  
find your path

**HYDERABAD INSTITUTE OF TECHNOLOGY & MANAGEMENT**  
UGC AUTONOMOUS COLLEGE | A- RATING BY NAAC | ACCREDITED BY NBA | ACADEMIC PARTNERS WITH BBA AND COCO  
Gowdavelly, Near Kompally, Medchal, Hyderabad, India.

**TOPICS OF INTEREST**

- » Solar Energy Systems
- » Doubly Fed Induction Generator WECS
- » Hydrogen Storage Systems
- » Significance of small wind turbines in urban and rural applications
- » Integration of Renewable Energy Sources
- » AI techniques applications for power systems
- » Multilevel Inverters for Renewable Energy Sources
- » Hybrid Systems

**ELIGIBILITY:**  
The Program is open to the Faculty of AICTE approved Institutions, Participants from Government and Industry interested in the field of EEE and ME disciplines and staff of host institution.

**REGISTRATION:**  
Only online Registration for this FDP

**CERTIFICATION:**  
The Certificates shall be issued by IEEE Hyderabad Section to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test conducted at the end of the FDP.

**ABOUT FDP**  
Recent Developments in Renewable Energy Technologies touches nearly every part of our daily lives. The growing energy crisis arising due to the mismatch in demand and supply of electricity is a major hindrance to sustain the current socio-economic growth of developing country like India. The integration of renewable energy sources like wind and solar have shown their effectiveness in achieving the aforesaid targets within their limits with the adoption and development of more advanced technology. The geographical map of India provides us tremendous potential to tap the wind energy available along the long coast line and solar energy is almost uniformly available in most of the parts of the northern India.

The aim of this faculty development programme is to provide exposure to faculty members & practicing engineers to the concepts of Recent Advances in Renewable Energy Technologies and Microgrids.

**ABOUT HITAM**  
Hyderabad Institute of Technology and Management is situated in a sprawling lush, green campus at Medchal in Telangana State. It was started in 2001 as Royal College of Engineering at Medak. This institution sought to impart qualitative education in the field of Engineering and Management. Transformation at HITAM does not stop with mere physical infrastructure; it extended far beyond. It has manifested as best practices, which have evolved with continuous refinement, be it in education, embracing eco-consciousness, facilitating career planning and ensuring faculty development, all from a perspective of overall growth of its students and faculty.

HITAM is the first campus in India that was certified as a Silver-Rated Green Building in the category of educational institutions, by LEEDS, US Green Building Council.

**ABOUT DEPARTMENTS**  
The Electrical & Electronics Engineering and Mechanical Engineering departments are witnessing a period of exciting growth and opportunity propelled by the growth of technology and its recognition through excellence with the mission to create a learning environment to transform the students with strong fundamentals in Engineering problem solving skills. EEE and ME have been Accredited by NBA.

**SPEAKERS**

1. Dr. RAVIKUMAR BHIMASINGU  
IIT Hyderabad
2. Dr. D. SWATI DEVABHAKTHUNI  
NIT Warangal
3. Mr. G.SURYAPRAKASH  
CEO, Archimedes Green Energy Pvt. Ltd.
4. Dr. PAWAN KUMAR CHAUHAN  
Hyderabad Institute of Technology & Management, Hyd.
5. Dr. MADHURI BAYYA  
Geotangli College of Engineering & Technology, Hyd.
6. Dr. KIRAN KUMAR N  
Vardhaman College of Engineering, Hyd.

**Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022**  
**Report on Dr Kalyan Sen, IEEE-Fellow & IEEE-Distinguished Lecturer---**  
**Visit to IEEE--PES/IAS/PELS—Jt. Chapter/ IEEE-Hyderabad Section---**  
**during 17<sup>th</sup>-21<sup>st</sup>October 2022**

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In our PES/IAS/PELS--Joint Chapter of IEEE Hyderabad Section the post Covid-19 Period is being effectively utilized through off-line activities that are conducted regularly in the year 2022. Since, August 2022, Our PES-Joint chapter started to organize various offline Physical events and gave thrust to conduct many IEEE-Distinguished Lecture Programs (DLPs).

These DLPs started with IEEE-Fellow, Dr Kalyan K Sen. His DLPs/ Tech-Talks were organised by our PES-Jt. Chapter, in many Engineering Colleges in Student and Academia Faculty Interaction Meets and Industry Interaction Meets at various places in IEEE-Hyderabad Section Geographic Area, from 17 to 21, October 2022. Dr. P.V. Rajagopal, Retired General Manager/ BHEL, Corporate R&D and Immediate Past Chair of PES/IAS/PELS Jt.Chapter of IEEE Hyderabad Section accompanied Dr Kalyan K Sen throughout his visit and coordinated the various events organised.

The present chair of PES-Jt.Chapter, Dr C. Harinatha Reddy, Associate Professor in EEE Department at G.Pulla Reddy Engineering College, Kurnool, Andhra Pradesh, India initiated the following events with the support from Dr P V Rajagopal and Dr K Ramakrishna (Past Director IEEE Region 10) and presently Governing body member of PES chapter, USA.

During the Visit of Dr.Kalyan K. Sen, from 17 to 21, Oct-2022, Our PES-Jt.Chapter Organised a Total of 8 Nos. of Events by him. These Events included (1) DLPs= 2 Nos. (2) Industry Interaction Meets= 3 Nos. (3) Student & Academic Faculty Interaction Meets= 3 Nos.

**Event Take Aways / Feed Back**= 8 Nos. of the Event were conducted with Dr.Kalyan K. Sen as the Invited Speaker, during 17 to 21, Oct-2022. All these Events were highly Appreciated and All the Events were very succesful. Many Faculty & Students networked a lot with Dr.Kalyan Sen. Also, many Practising Engineers who participated in these events also Interacted with Dr.Kalyan Sen. Many Participants Appreciated the high level of technical content of the Talks delivered and innovations done by Dr.Kalyan Sen. There werer many requests to conduct more events like this.

This Visit of Dr.Kalyan Sen benefitted the Engineers from Industry, Academia and Students from various organizations. The Industries Visted were BHEL, Corporate R&D and PGCIL and CPRI-UHV Lab in Hyderabad. The Educational Institutes Visited were GPREC, in Kurnool/ VNRVJIET, in Hyderabad and NIT-Warangal and SR University in Warangal.

Also such visits by Distinguished Professor or Speaker in IEEE PES chapter impacted many professionals in Power & Energy and Electrical Engineering related fields. This is Enabling Membership growth in PES- Jt. Chapter/ IEEE--Hyderabad Section. The present members in our PES-Jt. chapter crossed 1100. This is a remarkable achievement of Our PES-Jt. Chapter of Hyderabad Section compared to previous years.

As the Chair of PES joint chapter, I would like to express my sincere thanks to Dr P V Rajagopal, Dr.Ramakrishna Kappagantu, Dr Atul Negi (Chairman of IEEE Hyderabad Section) and entire Hyd-Section Execom for supporting us a lot in making this visit of Dr.Kalyan K. Sen a grand success.

Regards  
Dr. C Harinatha Reddy  
Chair, PES Jt Chapter/ IEEE--Hyderabad Section  
&&Associate Professor of EEEE dept at GPREC, Kurnool  
Mobile: 9966124224 / Email: [c.h.r@ieee.org](mailto:c.h.r@ieee.org)

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**Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022**  
**Below gives a Brief Summary of Each of the 8 Nos. of Events Conducted with Dr.Kalyan K. Sen as the Expert Speaker.**

**2)Event-1/ DLP-1/ Tech-Talk on “SMART Power Flow Controllers- A Necessity for Future Power Grids”.**

Date & Time Slot: 17-Oct-2022/ 10AM to 12 PM.

Venue: G.Pulla Reddy Engineering College, Kurnool, AP.

Mode of Meeting: Hybrid Mode (Both Off-Line and On-Line)

Participants: Students & Faculty of Engineering Colleges and Also Practising Engineers from Utilities & Industries.

Program Organised by: PES-Jt. Chapter/ IEEE-Hyderabad Section Jointly with Anantapuramu Sub-Section/ IEEE-Hyderabad Section

Senior IEEE-Office Bearers Present:

PES-Jt. Chapter/ Chair: Dr.C.Harinatha Reddy, Associate Professor, EEE-Dept.,G.Pulla Reddy Eng.College.

PES-Jt. Chapter/ Immediate Past Chair: Dr.PVRajgopal, Retired GM, BHEL, Corporate R&D, Hyderabad.

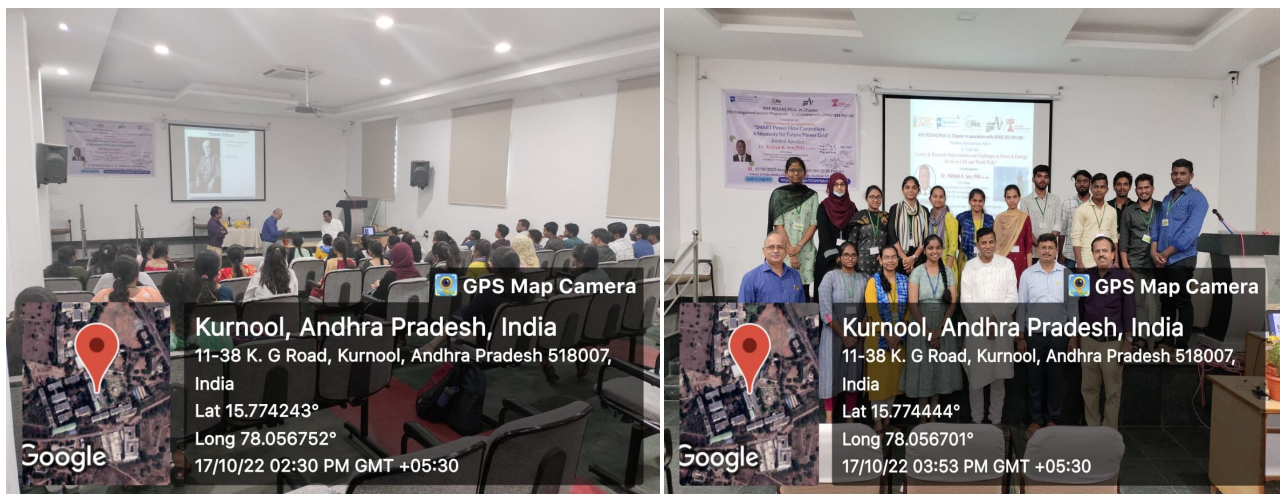
Anantapuramu Sub-Section/ Chair: Dr.YV Siva Reddy, Professor, EEE-Dept., G.Pulla Reddy Eng. College.

Total Participants= 183 Nos. (Off-Line=107+ Online=76)

The above Total Participants included (1) IEEE-Members=43 Nos. (2) Non-Members=140 Nos.

**Event Take Aways/ Feed Back=** This event was highly Appreciated and was very succesful. Many Faculty &Students networked a lot with Dr.Kalyan Sen.Some of the Practising Engineers present also Interacted with Dr.Kalyan Sen. Many Participants Appreciated the high level of technical content of the Talk and innovations done by Dr.Kalyan Sen.

**The following are few snap shots of the above DLP event:**



IEEE Hyderabad Section | PES | IAS | PELS

IEEE PES/IAS/PELS -Jt. Chapter  
PES Distinguished Lecturer Programme - in association with GREC IEEE PES SBC

Invitation to  
**Free Live Seminar (In Hybrid Mode)**  
**"SMART Power Flow Controllers-  
A Necessity for Future Power Grid"**

Invited Speaker :  
**Dr. Kalyan K. Sen, PhD, PE, MBA**

IEEE Fellow  
Fulbright Scholar (U.S.), GIAN Scholar (India),  
IEEE PES Distinguished Lecturer  
President & CTO, Sen Engineering Solutions, Inc.

17/10/2022 (Monday) | 10:00 AM-12:00 PM (IST)  
Venue: G Pulla Reddy Engineering College, Kurnool, AP, INDIA

Link to register | <https://forms.gle/DQWfQArnhDN47J1K7>

## Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022

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### 3)Event-2/ Student Interaction Meet-1 with Students & IEEE-Student Branch Excom Members and Brief Talk on“Career & Research Opportunities and Challenges in Power & Energy Sector in USA and World Wide”

Date & Time Slot: 17-Oct-2022/ 3 PM to 4 PM.

Venue: G.Pulla Reddy Engineering College, Kurnool, AP.

Mode of Meeting: OFF-Line/ Physical Meet

Participants: Students & Faculty of Engineering Colleges and Also Practising Engineers from Utilities & Industries.

Program Organised by: PES-Jt. Chapter/ IEEE-Hyderabad Section Jointly with Anantapuramu Sub-Section/ IEEE-Hyderabad Section.

Senior IEEE-Office Bearers Present:

PES-Jt. Chapter/ Chair: Dr.C.Harinatha Reddy, Associate Professor, EEE-Dept.,G.Pulla Reddy Eng.College.

PES-Jt. Chapter/ Immediate Past Chair: Dr.PVRajgopal, Retired GM, BHEL, Corporate R&D, Hyderabad.

Ananthapuramu Sub-Section/ Chair: Dr.YV Siva Reddy, Professor, EEE-Dept., G.Pulla Reddy Eng. College.

Total Participants= 102 Nos.

The above Total Participants included (1) IEEE-Student Branch Members/ Including Excom Members of IEEE-SB of GPREC=63 Nos.

(2) Non-Members=39 Nos.

**Event Take Aways/ Feed back**=This event was highly Appreciated and was very succesful.

The students present networked a lot with Dr.Kalyan Sen. There was request from students to conduct many more events like this. Before this Event, the EEE-Dept, HoD, Explained the various research activities taken up in their Dept. and he was also shown the Various Labs they have.

**The following are few snap shots of the above Event:**



The poster features logos for IEEE Hyderabad Section, IEEE PES (Power & Energy Society), IAS (IEEE Industry Applications Society), and PELS (IEEE Power Electronics Society). The text reads: "IEEE PES/IAS/PELS- Jt. Chapter In association with GPREC IEEE PES SBC STUDENT INTERACTION MEET". The speaker is Dr. Kalyan K. Sen, PhD, PE, MBA, an IEEE Fellow and Fulbright Scholar. The event is on 17/10/2022 (Monday) from 2:00 PM (IST) onwards at Seminar Gallery - 1, G Pulla Reddy Engineering College, Kurnool, AP, INDIA.

## Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022

### 4)Event-3/ Industry Interaction Meet-1 and Tech-Talk on“Future Trends in Power Flow Controllers”

Date & Time Slot: 18-Oct-2022/ 10 AM to 12.30 PM.

Venue: BHEL, Corporate R&D, Hyderabad, Telangana State (TS).

Mode of Meeting: OFF-Line/ Physical Meet

Participants: Practising Engineers from Industry.

Program Organised by: PES-Jt. Chapter/IEEE-Hyderabad Section

Senior IEEE-Office Bearers Present:

PES-Jt. Chapter/ Immediate Past Chair: Dr.PVRajgopal, Retired GM, BHEL, Corporate R&D, Hyd.

Total Participants= 31 Nos.

The above Total Participants included (1) IEEE-Members=4 Nos. (2) Non-Members=27 Nos.

**Event Take Aways/ Feed Back=** In this event BHEL R&D Division General Manager and other experts in Power Electronics Group have attended, apart from other Middle Level and Young R&D Engineers.

This event was highly Appreciated and was very succesful. Many Senior Engineers and Young Engineers networked a lot with Dr.Kalyan Sen. There was a request to conduct more events like this.

Many Participants Appreciated the high level of technical content of the Talk and innovations done by Dr.Kalyan Sen. Before this Event, the Power Electronics Group, HoD, Explained the various research activities taken up in their Dept. and he was also shown the Various Labs they have.

**The following are few snap shots of the above Event:**



IEEE Hyderabad Section

IEEE PES  
Power & Energy Society

IAS  
IEEE Institute of Systems, Man, and Cybernetics

PELS  
IEEE POWER ELECTRONICS SOCIETY  
Powering a Sustainable Future

IEEE PES/IAS/PELS -Jt. Chapter  
in association with BHEL Corporate R&D, Hyderabad

Invitation to  
Industry interaction meet & technical talk on  
**“Future Trends in Power Flow Controllers”**

Invited Speaker :  
**Dr. Kalyan K. Sen, PhD, PE, MBA**

IEEE Fellow  
Fulbright Scholar (U.S.), GIAN Scholar (India),  
IEEE PES Distinguished Lecturer  
President & CTO, Sen Engineering Solutions, Inc.

18/10/2022 (Tuesday) | 10:00AM - 12:30 PM (IST)  
Venue: BHEL Corporate R&D, Balanagar, Hyderabad

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### 5) Event-4/ Industry Interaction Meet-2 and Tech-Talk on “SMART Power Flow Controllers – A Necessity for Future Power Grids”

Date & Time Slot: 18-Oct-2022/ 3 PM to 5 PM.

Venue: Power Grid Corporation of India Ltd (PGCIL), Southern Region, Hyderabad, TS.

Mode of Meeting: OFF-Line/ Physical Meet

Participants: Practising Engineers from Industry.

Program Organised by: PES-Jt. Chapter/ IEEE-Hyderabad Section

Senior IEEE-Office Bearers Present:

PES-Jt. Chapter/ Immediate Past Chair: Dr.PVRajgopal, Retired GM, BHEL, Corporate R&D, Hyd.

Total Participants= 42 Nos.

The above Total Participants included (1) IEEE-Members=6 Nos. (2) Non-Members=36 Nos.

**Event Take Aways/ Feed Back=** In this event the Executive Director of PGCIL, Southern Region-1, and other Senior Experts in of PGCIL have attended, apart from other Middle Level and Young Grid Managing & Operating Engineers.

This event was highly Appreciated and was very succesful. Many Senior and Young Engineers networked a lot with Dr.Kalyan Sen. There was a request to conduct more events like this.

Many Participants Appreciated the high level of technical content of the Talk and innovations done by Dr.Kalyan Sen.

## Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022

The following are few snap shots of the above Event:



IEEE Hyderabad Section

IEEE PES Power & Energy Society

पावरग्रीड POWERGRID

IAS AN AMBEDI GROUP INSTITUTION

IEEE POWER ELECTRONICS SOCIETY Powering a Sustainable Future

**IEEE PES/IAS/PELS -Jt. Chapter**  
in association with Power Grid corporation of India Ltd

Invitation to  
**Industry Interaction Meet & Technical talk on**  
**"SMART Power Flow Controllers - A Necessity for Future Power Grid"**

**Invited Speaker :**  
**Dr. Kalyan K. Sen, PhD, PE, MBA**  
IEEE Fellow  
Fulbright Scholar (U.S.), GIAN Scholar (India),  
IEEE PES Distinguished Lecturer  
President & CTO, Sen Engineering Solutions, Inc.

18/10/2022 (Tuesday) | 03:00 PM-05:00 PM (IST)  
Venue: Old Praga Tools Premises, Kavadiiguda Road, Secunderabad

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6) **Event-5/ Student Interaction Meet-2** with Students & IEEE-Student Branch Excom Members and Brief Talk on **"Career & Research Opportunities and Challenges in Power & Energy Sector in USA and World Wide"**

Date & Time Slot: 19-Oct-2022/ 11 AM to 1 PM.

Venue: VNR Vignana Jyoti Institute of Engineering & Technology (VNRVJIET), Bachupalli, Hyderabad.

Mode of Meeting: OFF-Line/ Physical Meet

Participants: Students & Faculty of Engineering Colleges.

Program Organised by: PES-Jt. Chapter/ IEEE-Hyderabad Section

Senior IEEE-Office Bearers Present:

PES-Jt. Chapter/ Immediate Past Chair: Dr.PVRajgopal, Retired GM, BHEL, Corporate R&D,Hyd.

Total Participants= 255 Nos.

The above Total Participants included (1) IEEE-Student Branch Members/ Including Excom Members of IEEE-SB of VNRVJIET=146 Nos.

(2) Non-Members=99 Nos.

**Event Take Aways/ Feed back=** This event was highly Appreciated and was very succesful.

The students present networked a lot with Dr.Kalyan Sen. There was request from students to conduct many more events like this. After this Event, the EEE-Dept, HoD, Explained the various research activities taken up in their Dept. and he was also shown the Various Labs they have.

The following are few snap shots of the above Event:



## Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022

IEEE Hyderabad Section

IEEE PES  
Power & Energy Society

IAS  
IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

PELS  
IEEE POWER ELECTRONICS SOCIETY  
Powering a Sustainable Future

IEEE PES/IAS/PELS -Jt. Chapter  
In Association with  
IEEE VNRVJiet PES SBC  
Invitation to

**Student Interaction Meet & Talk on**  
**"Career & Research Opportunities and Challenges in**  
**Power & Energy Sector in USA and World Wide"**

Invited Speaker :

**Dr. Kalyan K. Sen, PhD, PE, MBA**

IEEE Fellow  
Fulbright Scholar (U.S.), GIAN Scholar (India),  
IEEE PES Distinguished Lecturer  
President & CTO, Sen Engineering Solutions, Inc.

19/10/2022 (Wednesday) | 11.00 AM - 1.00 PM (IST)

Venue: B-Block Seminar Hall, VNRVJiet, Hyderabad

<https://bit.ly/3CBAPfv>

Link to register

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### 7) Event-6/ DLP-2/ Tech-Talk on "Future Trends in Power Flow Controllers—Opportunities and Challenges".

Date & Time Slot: 20-Oct-2022/ 11 AM to 1 PM.

Venue: National Institute of Technology, Warangal, (NIT-Warangal), Telangana State (TS)

(NIT-W is one of the premier Engineering Colleges in India)

Mode of Meeting: OFF-Line/ Physical

Participants: Students & Faculty of Engineering Colleges and Also Practising Engineers from Utilities & Industries.

Program Organised by: PES-Jt. Chapter/ IEEE-Hyderabad Section in association with EEE dept association of NIT-Warangal.

Senior IEEE-Office Bearers Present:

PES-Jt. Chapter/ Immediate Past Chair: Dr.PVRajgopal, Retired GM, BHEL, Corporate R&D, Hyd.

Total Participants= 122 Nos.

The above Total Participants included (1) IEEE-Members=23 Nos. (2) Non-Members=99 Nos.

**Event Take Aways / Feed Back=** This event was highly Appreciated and was very succesful. Many Faculty & the students networked a lot with Dr.Kalyan Sen. Some of the Practising Engineers present also Interacted with Dr.Kalyan Sen. Many Participants Appreciated the high level of technical content of the Talk and innovations done by Dr.Kalyan Sen.

Before this Event, the EEE-Dept, Senior Professors, Explained the various research activities taken up in their Dept. and he was also shown the Various Labs they have.

**The following are few snap shots of the above DLP event:**



## Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022

The poster features logos for IEEE Hyderabad Section, IEEE PES (Power & Energy Society), IAS (IEEE Industry Applications Society), and PELS (IEEE Power Electronics Society). The main text reads: "IEEE PES/IAS/PELS -Jt. Chapter PES Distinguished Lecturer Programme - in association with Electrical Engineering Association of EEE Dept, NIT Warangal Invitation to Free Seminar (Offline mode only) on 'Future Trends in Power Flow Controllers --- Opportunities & Challenges' Invited Speaker : Dr. Kalyan K. Sen, PhD, PE, MBA". Below this, it lists his credentials: IEEE Fellow, Fulbright Scholar (U.S.), GIAN Scholar (India), IEEE PES Distinguished Lecturer, and President & CTO, Sen Engineering Solutions, Inc. The event details are: Date: 20/10/2022 (Thursday), Time: 11:00 AM-01:00 PM (IST), Venue: NIT Warangal, Telangana, India. A registration link is provided: <https://forms.gle/aocHsEHmUe7LS5ic9>. A small diagram of a power system is also visible on the right side of the poster.

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8) **Event-7/ Student Interaction Meet-3** with Students & IEEE-Student Branch Excom Members and Brief Talk on “**Career & Research Opportunities and Challenges in Power & Energy Sector in USA and World Wide**”

Date & Time Slot: 20-Oct-2022/ 2.30 PM to 4.30 PM.

Venue:S.R. University, Hasanparthy, Warangal.

Mode of Meeting: OFF-Line/ Physical Meet

Participants: Students & Faculty of Engineering Colleges.

Program Organised by: PES-Jt. Chapter/ IEEE-Hyderabad Section in association with IEEE-Student Branch of SR University, Warangal.

Senior IEEE-Office Bearers Present:

PES-Jt. Chapter/ Immediate Past Chair: Dr.PVRajgopal, Retired GM, BHEL, Corporate R&D, Hyd.

Total Participants=85 Nos.

The above Total Participants included (1) IEEE-Student Branch Members/ Including Excom Members of IEEE-SB of SR University= 39 Nos. (2) Non-Members=46 Nos.

**Event Take Aways/ Feed back=** This event was highly Appreciated and was very succesful.

The students present networked a lot with Dr.Kalyan Sen. There was request from students to conduct many more events like this. In this College there was a great Zeal in Students to Interact with Dr.Kalayan Sen. Even after the Event was Completed, the Many Students interacted with him on various Topics. The students wanted Dr.Kalyan Sen to Visit their Institute once again and wanted him to spend more time with him.

**The following are few snap shots of the above Event:**





## Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022

IEEE Hyderabad Section

PES Power & Energy Society

SR

IAS INSTITUTE FOR ADVANCED STUDIES

PELS IEEE POWER ELECTRONICS SOCIETY

IEEE PES/IAS/PELS -Jt. Chapter  
In Association with  
S R University IEEE Student Branch  
Invitation to

**Student Interaction Meet & Talk on**  
**"Career & Research Opportunities and Challenges in**  
**Power & Energy Sector in USA and World Wide"**

Invited Speaker :

**Dr. Kalyan K. Sen, PhD, PE, MBA**

IEEE Fellow  
Fulbright Scholar (U.S.), GIAN Scholar (India),  
IEEE PES Distinguished Lecturer  
President & CTO, Sen Engineering Solutions, Inc.

20-10-2022 (Wednesday) 2.30 PM - 4.00 PM (IST)  
Venue: SRIX AUDITORIUM SR UNIVERSITY WARANGAL

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### 9)Event-8/ Industry Interaction Meet-3 and Tech-Talk on "Future Trends in Power Flow Controllers"

Date & Time Slot: 21-Oct-2022/ 10.30 AM to 12.30 PM.

Venue: Central Power Research Institute (CPRI) -UHV Research Lab, Uppal, Hyderabad, TS

Mode of Meeting: OFF-Line/ Physical Meet

Participants: Practising Engineers from Industry.

Program Organised by: PES-Jt. Chapter/ IEEE-Hyderabad Section

Senior IEEE-Office Bearers Present:

PES-Jt. Chapter/ Immediate Past Chair: Dr.PVRajgopal, Retired GM, BHEL, Corporate R&D, Hyd.

Total Participants= 14 Nos.

The above Total Participants included (1) IEEE-Members=7 Nos. (2) Non-Members=7 Nos.

**Event Take Aways/ Feed Back=** In this event the Unit Head & Additional Director of CPRI-UHV Research Lab, Hyderabad Division and other Senior Experts in CPRI have attended, apart from other Middle Level & Operating Engineers.

This event was highly appreciated and was very successful. Many Senior and Middle Level Engineers networked a lot with Dr.Kalyan Sen.

Many Participants appreciated the high level of technical content of the Talk and innovations done by Dr.Kalyan Sen.

This Event was graced by the presence & participation by IEEE Life Fellow & Eminent Professor Ramamoorthy Mylavarapu. During his career, he was Professor in IIT-Kharagpur and later he was also the Director General of CPRI, India.

Also, this Event was graced by the presence & participation by Dr. Ramakrishna Kappagantu, IEEE Smart Village, Governing Board, **Member**, 2022. He was a part of engineering executive management Team of National Thermal Power Corporation of India Limited (NTPC) and Power Grid Corporation of India Limited (POWERGRID), both are Major Companies in Indian Power Sector.

Prof.Ramamoorthy Mylavarapu and Ramakrishna Kappagantu appreciated the high level of technical content of the Talk and innovations done by Dr.Kalyan Sen.

After this Event, Senior Engineers of the CPRI-UHV Research Lab, have shown the various Research & Test Facilities they have and explained the Type of Tests being conducted here for the Electrical Equipment Manufacturers in India. He was also shown the various Labs they have.

**The following are few snap shots of the above Event:**

## Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022



IEEE Hyderabad Section

IEEE PES  
Power & Energy Society

IAS  
IN INDUSTRY APPLICABLE SOCIETY

pels  
IEEE POWER ELECTRONICS SOCIETY  
Powering a Sustainable Future

**IEEE PES/IAS/PELS -Jt. Chapter**  
in association with  
**CPRI-UHV Research Lab**  
Invitation to  
**Industry Interaction Meet & Technical talk on**  
**"Future Trends in Power Flow Controllers"**

**Invited Speaker :**  
**Dr. Kalyan K. Sen, PhD, PE, MBA**

IEEE Fellow  
Fulbright Scholar (U.S.), CIAN Scholar (India),  
IEEE PES Distinguished Lecturer  
President & CTO, Sen Engineering Solutions, Inc.

21-Oct-2022/ Friday | 10.30 AM - 12.30 PM (IST)  
Venue: CPRI-UHV Research Lab, Uppal, Hyderabad, Telangana, India

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## Report on S.K. Panda Visit in Hyderabad during 11<sup>th</sup> & 12<sup>th</sup> November 2022

10. The PES/IASPELS Joint chapter of IEEE Hyderabad Section hosted for PELS India Chapters Training meet held at G. Narayanamma Institute of Technology & Science, Hyderabad, Telangana, India. This meet was coordinated by Dr SreenivasKarankiBhaskar, Asst Professor in EEE Dept at IIT Bhubaneswar, Orissa and is PELS chapter liaising officer in India under the leadership of Dr S.K.Panda, Director, Power and Energy Area, NUS, Department of Electrical & Computer Engineering Electrical Machines and Drives Laboratory. Dr. S.K. Panda is also IEEE Region 10 PELS Representative.

During this training the following points were discussed.

The event started with the Introduction of all chapter chairs and their representatives along with S.K Panda and SreenivasBhaskar. Later on Prof Sanjib Kumar Panda addressed the gathering and delivered a talk on "IEEE Power Electronics Society – Growth & Excellence". Later Dr SreenivasBhaskar presented a report of PELS India-India Liaison.

Just before lunch presentation of current status of each PELS chapter activities was done by the respective chapter chairs. Training Session to the Office bearers, by S.K.Panda was continued. During this period many points have been discussed such as event reporting, funds availability and how to tap them etc.

Also discussion about the challenges for membership growth and ways to improve it was done. Later on Discussion on Conducting ECCE 2025 and other conferences sponsored by IEEE PELS was done during this training period.

Following are few snapshots during this training.

## Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022



11 . After the training part for all the chapter chairs the PES/PELS/IAS Joint chapter of Hyderabad section conducted its flag ship event Faraday Memorial Lecture 2022 in offline mode. For this flag ship event the Hyd Section invited Dr S.K. Panda to deliver a talk on “Single-phase inverter control techniques for interfacing renewable energy sources with micro-grid” . The session went on well both in online and offline mode. The number of participants attended is 72 out of which 46 are IEEE members. This FML was conducted at Hotel The plaza in Begumpet , Hyderabad on 11<sup>th</sup> Novemembr2022 from 6.00 PM to 8.00 PM followed by Dinner for all participants. For this FML people from Industry, academia and research scholars have been invited. The following are few snap shots of the FML 2022.



12. Another event was conducted as a part of S.K.Panda Sir visit i.e. A Technical talk on “**Plug and play devices for microgrid-Applications**” at IT Seminar Hall in G. Narayamma Institute of technology & Science, Shaikpet, Hyderabad, Telangana, India on 12<sup>th</sup> November 2022 from 12.00 PM to 1.00 PM. This event is especially for the students and faculty GNITS. During this talk he enlightened the participants about the plug and play devices that are used in microgrid applications. Later on career opportunities in PELS was discussed during the interaction with students. The number of participants is 102 out of which 29 are IEEE members. Dr S.K.Panda announced about the free PELS membership for the students as well as professional members during his talk. Dr Panda sir inspired the students to start PELS student branch chapter at GNITS, Hyderabad and it will be inaugurated shortly in December 2022 most probably. The following are few snapshots during the technical talk.



## Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022

At the outset Dr.S.K.Panda visit benefitted the people from Industry, Academia and Students across PELS Jt chapter of IEEE Hyderabad Section and impacted many professionals in Electrical engineering related fields and is resulting in the PELS membership growth in Hyderabad Section. The present members in PELS jt chapter crossed 1100 which is remarkable achievement of PES jt chapter of Hyderabad Section compared to previous years.

### Report on Shahid Jamil visit to Hyderabad during 30<sup>th</sup> Novemebr 2022

13. The PES/IASPELS Joint chapter of IEEE Hyderabad Section hosted for IAS distinguished lecture programme and technical talks by Shahid Jamil at Osmania University of Hyderabad, Telangana, India. This meet was coordinated by Dr J Upendar ,Asst Professor in EEE Dept at Osmania University college of Engg Dr. C. HARinatah Reddy, Chairman of PES/IAS/PELS Jt chapter of IEEE Hyderabad Section. The details of the events are as follows.

The first event by Shahid Jamil was on 30<sup>th</sup> Nov 2022 and the details are as follows.

Date : 30-Nov-2022

Venue : EEE dept Seminar Hall, Osmania University, Hdderabad

Time : 11.30.00 PM to 1.30 PM.

Topic: **“Auditing Electrical Safety Proramme” by Shahid Jamil, Professional engineer, Electrial Safety consultatn, USA**

No Participants: 88 in offline mode and 48 in online mode



14. The second event by Shahid Jamil was on 30<sup>th</sup> Nov 2022 evening and the details are as follows

Date : 30-Nov-2022

Venue The Plaza Hotel Hyd

Time : 5.30.00 PM to 8.30 PM.

Topic: **“Auditing Electrical Safety Proramme” by Shahid Jamil, Professional engineer, Electrial Safety consultatn, USA**

No Participants: 28 in offline mode and 12 in online mode



Report on Dr R Balasubramian online webinar on 3<sup>rd</sup> December 2022

15. The PES jt chapter conducted an online webinar on 3<sup>rd</sup> Dec 2022 and the details are as follows.

Date : 03-Dec-2022

Venue Online mdoe.

Time : 6.30 AM to 8.30 PM.

Topic: ""Power System Reliability Assessment Using Monte Carlo Simulation Techniques" by Prof. R. Balasubramanian, Retired Professor I I T Delhi IEEE Hyderabad Reliability Society Chapter

No Participants: IEEE- 46 Total 59

Feedback: The feedback given by processonals is excellent

Report on Dr Brij N Singh visit to Hyderabad during 20<sup>th</sup> to 22<sup>nd</sup> December 2022

16. Another major PELS DLP lecture by Dr Brij N Singh was organized by PES jt Chapter during 20<sup>th</sup> to 22<sup>nd</sup> Dec 2022. The details are as follows.

The first event was at MVSR Engg college as mentioned below.

**Report on PES/IAS/PELS Joint Chapter of IEEE Hyderabad Section activities-during January to December 2022**  
 17. The second event by Brij N Singh was at BHEL,Hyderabad, Telangana as mentioned below.

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### IEEE PES/IAS/PELS Joint Chapter Hyderabad Section Activity Planned in November/December-2022

**Event--17: PES Jt Chapter –Industry Interaction meet-In Association with BHEL Hyderabad**  
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- Seminar-16 of our PES-Jt. Chapter /
- Date : 20-Dec-2022
- Venue BHEL, Balanagar.
- Time : 2.30 PM to 4.30 PM.
- Topic: **"Wideband Gap Power electronic Systems for Heavy Duty vehicles** by Dr Brij N Singh, John Deere and IEEE Technical Fellow, John Deere USA
- No Participants: IEEE- 6 Total 22
- Feedback: The feedback given by industry people is excellent



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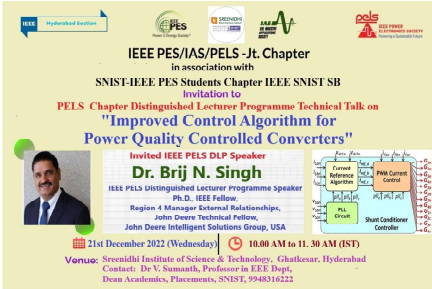

18. The 3<sup>rd</sup> event by Brij N Singh was at Sri Nidhi Institute of Science and Technology, Hyderabad mentioned below

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### IEEE PES/IAS/PELS Joint Chapter Hyderabad Section Activity Planned in November/December-2022

**Event--18: PES Jt Chapter –Technical Talk-In Association with SNIST IEEE SB PES SBC**  
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- Seminar-17 of our PES-Jt. Chapter /
- Date : 21-Dec-2022
- Venue Seminar Hall, EEE Dept, SNIST, Hyderabad
- Time : 10.30 AM to 12.30 PM.
- Topic: **" Improved Control Algorithm for Power Quality Controlled Converters"** by Dr. Brij N Singh, International Distinguished Speakers of IEEE PELS Society, John Deere Intelligent Solutions Group (JD ISG), Fargo, ND, USA,
- No Participants: IEEE- 22 Total 64
- Feedback: The feedback given by industry people is excellent

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19. The 4<sup>th</sup> event was at Vardhaman College of Engg Hdyderabad as mentioned below.

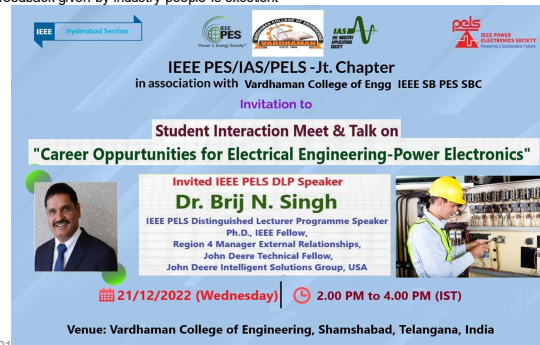
IEEE PES/IAS/PELS Joint Chapter Hyderabad Section  
Activity Planned in November/December-2022

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Event--19: PES Jt Chapter –Technical Talk-In Association with Vardhaman College of Engg  
IEEE SB PES SBC

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- Seminar-18 of our PES-Jt. Chapter /
- Date : 21-Dec-2022
- Venue Seminar Hall, EEE Dept, Vardhaman College of Engg
- Time : 2.30 PM to 4.30 PM
- Topic: " Student Interaction meet talk on Career oportunities" by Dr. Brij N Singh, International Distinguished Speakers of IEEE PELS Society, John Deere Intelligent Solutions Group (JD ISG), Fargo, ND, USA,
- No Participants: IEEE- 32 Total 78
- Feedback: The feedback given by industry people is excellent



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20. The 5<sup>th</sup> event by Dr Brij N Singh was at JNTUA, College of Engg, Ananthapuramu, Andhra Pradesh, India and the details are given below.

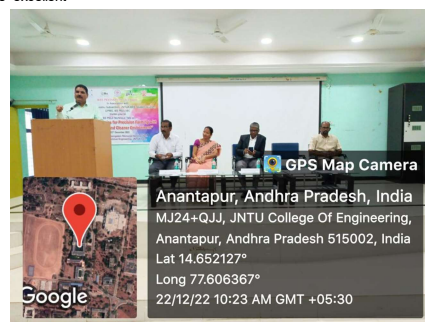
IEEE PES/IAS/PELS Joint Chapter Hyderabad Section  
Activity Planned in November/December-2022

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Event--20: PES Jt Chapter –DLP Talk-2 in Association with JNTUA College of Engg IEEE  
Studetn Branch

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- Seminar-19 of our PES-Jt. Chapter /
- Date : 22-Dec-2022
- Venue EEE Dept Seminar Hall, JNTUA, Anathapuramu
- Time : 10.30 AM to 12.30 PM.
- Topic: "Power Electronics for Precision Farming with Substantiable and Cleaner Environment" by Brij N. Singh, Ph.D., IEEE Fellow, Region 4 Manager External Relationships, John Deere Technical Fellow, John Deere Intelligent Solutions Group, USA
- No Participants: IEEE- 34 Total 105
- Feedback: The feedback given by processionals and Students is excellent



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21. The 6<sup>th</sup> event by Dr Brij N Singh was at Sri Krishna Devaraya College of Horticultural Sciences, Ananthapuramu, India and the information is given below.

IEEE PES/IAS/PELS Joint Chapter Hyderabad Section  
Activity Planned in November/December-2022

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**Event--21: PES Jt Chapter –Student Interaction meet-In Association with Sri Krishna Devaraya College of Horticultural Sciences, Ananthapuramu**

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- Seminar-20 of our PES-Jt. Chapter /
- Date : 22-Dec-2022
- Venue : Sri Krishan Devaray College of Horticultural Sciences, Ananthapuramu
- Time : 3.30 PM to 5.30 PM.
- Topic: **"Precision Farming with Substantiable and Cleaner Environment"** by **Brij N. Singh, Ph.D., IEEE Fellow, Region 4 Manager External Relationships and John Deere Technical Fellow** John Deere Intelligent Solutions Group, No Participants: IEEE- 10 Total 124
- Feedback: The feedback given by students is excellent

The poster is for an IEEE PELS Technical Talk. It features the IEEE logo and logos for PES (Power & Energy Society), IAS (Industrial Applications Society), and PELS (Power & Energy Leadership Society). The text reads: 'IEEE PES/IAS/PELS -Jt. Chapter In Association with IEEE Ananthapuramu Subsection & Sri Krishna Devaraya College of Horticultural Sciences Invitation to IEEE PELS Technical Talk on "Precision Farming with Sustainable and Cleaner Environment"'. The speaker is 'Invited IEEE PELS DLP Speaker Dr. Brij N. Singh', who is an IEEE PELS Distinguished Lecturer Programme Speaker, Ph.D., IEEE Fellow, Region 4 Manager External Relationships, John Deere Technical Fellow, and John Deere Intelligent Solutions Group, USA. The event is on '22/12/2022 (Thursday)' from '2.00 PM to 4.00 PM (IST)' at 'Seminar Hall Sri Krishna Devaraya College of Horticultural Sciences, Alamaru, Ananthapuramu, A.P, India'. A 'Link to register' is provided as <https://forms.gle/hPYtGFeaDvpbzvSj7>. The IEEE logo with the tagline 'Advancing Technology for Humanity' is in the bottom right corner.

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At the outset Dr.Brij N Singh visit benefitted the people from Industry, Academia and Students across PELS Jt chapter of IEEE Hyderabad Section and impacted many professionals in Electrical engineering related fields and is resulting in the PELS membership growth in Hyderabad Section.

22. The PES jt Chapter supported a National level event Powergen(an utility exhibition) organized at Pragathi maidan New Delhi during 12<sup>th</sup>-14<sup>th</sup> October 2022. Sri Rachapa was sponsored from Hyderabad Sectio to attend this event and benefitted a lot for all the industry and acadademia and also the research scholars across India.

As the Cahir of PES joint chapter, I would like to express my sincere thanks to Dr P V Rajagopal, immediate past chair of PES Jt chapter of Hyderabad Section for supporting us a lot in making section PES jt chapter a grand success. Also my sincere thanks to Chairman of IEEE Hyderabad Section for supporting the PES jt chapter and facilitating in all aspects for the success of chapter events during January o December 2022.

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