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REPORT ON "RECENT ADVANCES IN POWER ELECTRONICS AND POWER SYSTEMS"

EventType	:Five Day Faculty Development Programme
Date/Duration	:09-11-2021 to 13-11-2021
ResourcePerson	1. K.Harinadha Reddy, Vice-Principal, LBRCE
	2. Dr.I.Satish Kumar, NIT, Warangal
	3. Mr.B.Siva Prasad, ADE, NTTPS, Vijayawada
	4. Dr. Ch.Ravi Kumar, ANU, Guntur
	5. Dr Bhaskara Rao Ravada, IIT, Bombay
Names of Coordinators	: Dr.G.Nageswara Rao, Professor
	Mr.J.V.Pavan Chand, Sr.Asst. Professor
TargetAudience	: External and Internal Faculty Members, M.tech and Research Scholar
Total no. of Participants	:81(External)+27(Internal)
Objective of the event	: To enhance the knowledge of participants in the area of Power Electronics and Power Systems

Outcome of event : Faculty were able to

- > Understand the Island Detection in Integrated Power System using Power Electronics Converters .
- Understands Recent Advances in Thermal Power Stations
- Know the Power electronic converters
- > Understand the Power Converters in hybrid electric vehicle (PHEV) systems
- > Design the Modeling & Control of Electrical Systems
- Understand the Automatic Generation Control of Power Systems

Description/Reporton Event:

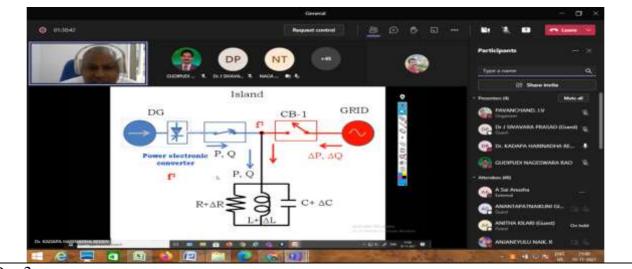
The FDP aims to provide opportunities to faculty members, research scholars and post graduate students to enrich their knowledge about the significance of recent technology and current research opportunities in their working domains.

The Program also provided excellent opportunities to exchange ideas on technical session. The sessions of this FDP was conducted by the team of eminent academicians and industry expert possessing in depth knowledge in the area of recent trends in power electronics and power systems. It consists of series of lectures. The FDP was attended by around seventy participants consists of faculty members and research scholars from various engineering colleges.

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<u>Day 1</u>

The session was taken by Dr.K.Harinadha Reddy, Vice Principal, LBRCE, delivered a keynote address on Island detection in integrated power system using power electronics converters in which he discussed the introductory part and its importance. He also explained All Type of island techniques with simplified manner.



<u>Day 2</u>

In session, an informative lecture delivered by Professor Dr.Ch.Ravi Kumar, Assistant Professor, ANU from Guntur, on the overview of application of optimization algorithms to enhance the performance in transmission system using TCSC issues related with power electronics and drive. He also given introduction of Traditional methods of power control, advantage of power semiconductors devices, Turn on losses and turn off losses.



<u>Day 3</u>

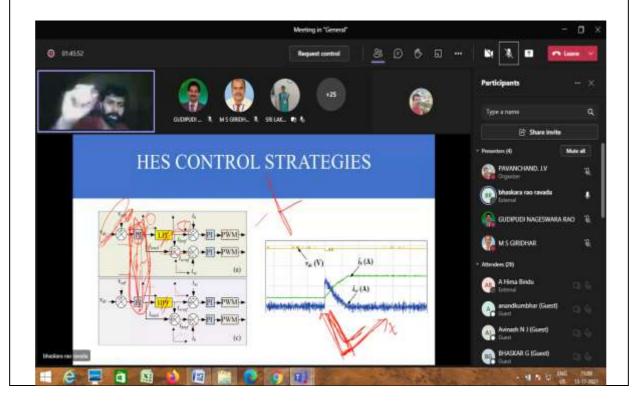
In the session Mr.B.Siva Prasad, ADE, NTTPS, Vijayawada has illuminated us an overview of recent advances in thermal power stations, its history, importance and applications. introduce the re



cent scenario of power plant establishment problems and technical challenges.

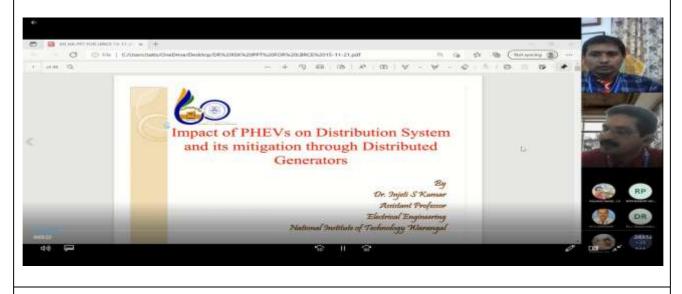
Day 4

In session Dr. R.Bhaskar Rao, IIT Mandi has taken a very interactive session on basics of the challenges & research aspects of electric vehicles.



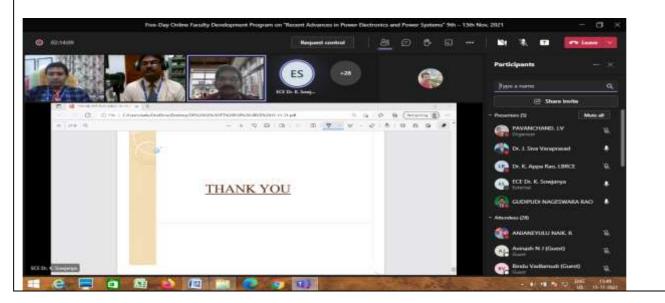
Day: 5

In session Dr. I.Satish Kumar, Assistant Professor, NIT Warangal ,discussed about power converters in hybrid electric vehicle (PHEV) systems



VALEDICTORY SESSION

The valedictory session was started at 03:40pm on 13th November 2021. The Honorable personalities present in the occasion were Sri G.Srinivasa Reddy President, LBRCE Pricipal, Vice Principal, Deans, HODs, FDP coordinators. After the welcome address, the ceremony started with presentation of brief summary report about the FDP by Dr.G.Nageswara Rao Professor, FDP coordinator. All the participants from various institutions appreciated the program and department for organizing the FDP in their feedback. After this certificates were presented to the participants, Principal sir addressed the gathering and shown his kind gratitude to the organizing department. He also encouraged the participants and emphasized on the benefits of such activities. Dr.J.Siva vara Prasad, Professor &HOD, convener of FDP had proposed vote of thanks to all the Committee members, who were the part of this 5 days faculty Development Program. Then, the valedictory session was concluded.



అధునిక పరిజ్ఞానంపై 11 11/21 నైపుణ్యం పెంచుకోవాలి మెలవరం: ఆధునిక పరిజ్ఞానంపై నైపుణ్యం పెం పొందించుకోవాలన లకిరెడ్ బాలిరెడ్డి ఇంజినీరింగ్ కళాశాల పిన్నిపోల్ డాకర్ కె. ఆపారావు 80 పారు. మెలవరం లకిరెడ్డి బాలిరెడ్డి ఇంజినీరింగ్ ຮອງອອດ້ ພຍູຊໍຮອ້ ແລະ ພຍາສຸກສົງ ສວສກໍຽວ గ్ విధాగం ఆద్వర్యంలో అధ్యాపక అభివృద్ధి శిశ్రణ కార్యథమంలో భాగంగా రీపెంట్ అద్వాన ఇన్ పవర్ ఎల్ర్హానిక్స్ అండ్ పవర్ సిస్టమ్స్ అనే అంశంపై ఐదు రోజుల శిక్షణ కార్యక్రమం బుధ వారం ప్రారంభించారు. ఈ శిశ్రణ కార్యక్రమాల ద్వారా జ్ఞానం పెంపాందించుకుని టీచింగ్, లెర్మిం గ్ ప్రాబస్ను అభివృద్ధి చేయాంది, పరిశోధనా పామర్వాలు మెరుగుపర్పుకోవాలన్నారు. వైస్ ఫిస్పిపాల్ దాక్టర్ కె.పారినాథరెడ్డి మాట్లాడుతూ ప్రస్తుత పరిస్థితుల్లో అధ్యాపక ఆభివృద్ధి శిక్షణ కార్యకమం దాల ముఖ్యదుని, బలాండ్ డిటెక్టన్ ఇన్ జంటిల్టిటెడ్ పవర్ సిస్టమ్ యూసింగ్ వవర్ ఎల్రకానిక్స్ కన్వర్లర్ అనే అంశం గురించి వివరిందారు. ఈఈఈ విభాగాధిపతి దాక్టర్ జె.శివవర ప్రసాద్ ప్రసంగిందారు. దాక్టర్ జి నాగేశ్వ రరావు. జే.వీ. పవన్ చంద్ కో ఆర్థినేటర్స్గా వ్యవహరిందారు.

Coordinators: Dr.G.Nageswara Rao Mr.J.V.Pavan Chand