

KLEF
Department of EEE
Report on Alumnus Webinar

Title: Performance and Control of Renewable Energy fed Microgrids under Unbalanced and Nonlinear Conditions

Date: 01-06-2020 to 03-06-2020

WEBEX LINK

<https://meetingsapac20.webex.com/meetingsapac20/j.php?MTID=m2eefaf4aa851fd91c18b939eadb9af2e>

Faculty Coordinator:

Dr. B.LOVESWARA RAO, Professor, EEE Dept.

Orders of the Vice Chancellor dt.31.05.2020

CIRCULAR

Sub: Alumni Webinar series titled “**Performance and Control of Renewable Energy fed Microgrids under Unbalanced and Nonlinear Conditions**” – Reg.

Ref: E-mail dated 30.05.2020 from Dr.S.V.N.L. Lalitha, HOD-EEE.

This is to inform all the faculty members and students that Department of EEE, KLEF is organizing an Alumni webinar series titled “**Performance and Control of Renewable Energy fed Microgrids under Unbalanced and Nonlinear Conditions**” by Dr. Noel Richard Merritt, Ph.D. from Department of Electrical Engineering, IIT- Kharagpur *as the Key Speaker* at 10.00 a.m. from **1st June to 3rd June 2020 for three days daily through the following webex link.**

WEBEX LINK


<https://meetingsapac20.webex.com/meetingsapac20/j.php?MTID=m2eefaf4aa851fd91c18b939eadb9af2e>

Poster is attached herewith.

For further details on webinar Dr. B. Loveswara Rao, Faculty Coordinator & Professor, Department of EEE, can be contacted at his mobile number 9866290922.


REGISTRAR

Encl: Poster

KL EEE **ALUMNUS WEBINAR** 

on
Performance and Control of Renewable Energy fed Micro-grids under Unbalanced and Nonlinear Conditions

Resource Person





Dr. Noel Richard Merritt
Dept. of Electrical Engg.
IIT- Kharagpur

1st June to 3rd June , 2020
10.00 AM - 11.00 AM

2005-2009 Batch Alumnus
M.Tech & PhD: IIT Kharagpur
Expertize: Power Electronic Converters, Micro-grids, HVDC & FACTS

WEBEX LINK:
<https://bit.ly/2yKKS4X>



Alumni Webinar Series # EEE Department # KLEF 

PARTICIPANTS

S Ravi Teja	GRS Nagkumar	KP Prasad Rao	K Narendra	Swathi
D Kalyan	Sk Moulali	B Jyothi	Navya	Yamini Krishna
G Sai Nikhil	M Naga Chaitanya	T Vijayamuni	P Rizwan	B Srikanth Goud
K Keerthi	A Pandian	Rajasehkar S	P Sai	PNS Vamsi Krishna
V Sai Chand	A sudheer	Gopi K	Preeti Kabra	M Sao Prakash
Y Bhavya sree	Amarendra Ch	Harsha Nikhanj	RBR Prakash	K Aravind
B Pranav	Amritha K	Hema Dasari	Rao	G Swapna
A Chandra Kiran	Anil kumar V	J Rajesh	Rekha M	GG Rajasekhar
B Ram Harijan	P Bhavava	K Jyothi	Sai Lakshmi	N Amalalingeswara Rao
182061006	Bhavani Priya	N Keerthi	M Santosh kumar	B Venkata Rajanna
182061007	B Jyothi	SVNL Lalitha	Sk Jakeer	G Meerimatha
Mounika	B Loveswara Rao	Y Lalitha	P Sirisha	Y Narasimha Rao
182062004	Ch Sriram	MVKN Priyanka	E Sreelatha	Naveen
Sumanjali	Dhanunjay	M Sai Krishna Reddy	M Srikanth	Nithin Shriram Kabra
Satya Kalyani	M Kiran kumar	Manasa Y	S Srikanth	Venkat Reddy
G Kiram	PVRD Prasad	M Ramanarayana Resddy	Srilatha	Viswa Teja
Nagathimmai ah	Venu gopal	D Narsimha Rao	S Neelima	R Madhavi
K Sarada	S Venu	Narasimha	B Venu gopal	Komal sai Manohar

GIST

Day 1 01-06-2020 10 AM to 11 AM

1. Welcoming note by HoD-EEE
2. Introduction of resource person by coordinator
3. The resource person highlighted the micro-grids and associated technical issues with renewable energy flow into the grid. All possible interfacing techniques and corresponding control are taken up. The session has enlightened participants on real picture of micro-grid issues.
4. Question and answer session is taken up for 10 minutes

Day 2 02-06-2020 10 AM to 11 AM

1. The solutions for interfacing power quality and control issues were highlighted for the case of balanced load on the system. Case studies and real time examples were shared. The session has enlightened participants on control of power flow in micro grids.
2. Question and answer session is taken up for 10 minutes

Day 3 03-06-2020 10 AM to 11 AM

1. The solutions for interfacing power quality and control issues were highlighted for the case of balanced load on the system. Case studies and real time examples were shared. The session has enlightened participants on control of power flow in micro grids.
2. Question and answer session is taken up for 10 minutes
3. Feedback by participants
4. Valedictory speech by coordinator

Certificate to Resource Person



File Edit Share View Audio Participant Meeting Help

KD 1R N JK R

kalyan DUSARLAPUDI (Host) 195051007 Thirumala Rao Noel Richard Merritt jyothi tesa Rekha

Viewing Noel Richard Merritt...

Open Loop DC link voltage control for the PV and Wind Generation units [62]:

Renewable Energy Source (PV/Wind)

Voltage Source Converter

PCC – Point of Common Coupling

DC link with distributed network

$$C_{eq} = \frac{C_1 C_2}{C_1 + C_2}$$

$$I_{cm} = I_{C1} = I_{C2} = C_{eq} \frac{dV_{DC}}{dt}$$

$$V_{DC} = V_{C1} + V_{C2}$$

$R_{Loss_{eq}} = R_{Loss1} + R_{Loss2}$

Back Unmute

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KD 2S

kalyan DUSARLAPUDI (Host) Lalitha S V N L Noel Richard Merritt Seshi Reddy Daka 2278-EEE-K SARADA

4666-EEE G.G.RAJA SEK... Teja Sreenu Tadivaka EE... 13306018-Ch Amarendra 160060075 MATHI VEN... 160060121Syed Arief

1B 1H 1 1 1S

163060047 SRIKANTH GOUD B 182061007 harshini 182061010(mounika) 182062006 195061001 Sumanjali

1T 1V 1K 1R 1P

195061002 Trinadh thota 195061004 Narayana v... 195061005 Satya kalyani 195061007 Thirumala R... 195062001 MEKA SAI ...

1A 1G 1N 3S 4V

Participation Certificates were issued to participants.

HOD-EEE