



Sri Sai Vidya Vikas Shikshana Samithi ®

SAI VIDYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to VTU, Recognized by Govt. of Karnataka)

RAJANUKUNTE, BANGALORE - 560 064, KARNATAKA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Phone: 080-28468191/96/97/98 * E-mail: info@saividya.ac.in * URL www.saividya.ac.in

Date: 29-06-2020

Report on Webinar -1: Electrical protection , switchgear and applications

Department of Electrical and Electronics Engineering, Sai Vidya Institute of Technology, Bangalore in association with IEEE Power and Energy Society SVIT Student Chapter conducted Webinar on the topic “Electrical-Protection, Switch Gear and its Applications”.

Date of the Event: 29th June 2020 at 11:00 AM

Speaker Details:

- Mr Shivanand D.V, working as CEO of Universal Power Controllers (Dbsons) Bangalore, Karnataka, India.
- He has been giving training and certification for electrical engineers from various electrical entities across the country and limited foreign countries.
- UNIVERSAL POWER CONTROLS is professionally run Company with 30 years of experience in Manufacturing of Electrical Control Panel.
- They manufacture panels like Power Control Center PCC, Motor Control Center MCC, Automatic Power Factor Correction Panels APFC, Slippering, Mimic, Automation, And Custom Built Panels in areas viz., Automobile, Textiles, Process, Cement, Food Processing Unit, Mining Sector, Oil Refineries , Gas & Etc.
- They are also one of the leading advanced Training Providers in the area of Electrical Switchgears & their Applications for Technical Aspirants.
- The resource person discussed on various types of protective devices, different types of faults, Automatic panels, power factor correction panel

Online webinar Platform: Gotomeeting Application

Webinar meeting Link: <https://global.gotomeeting.com/join/811583781>

Timings: 11:00 AM to 1:00 PM

Total Number of Registrations: 200+

More than 200 participants had registered for the webinar and more than 120 Participants actively participated from various Industry professional's/ Faculty member's/ Research scholars/ students from many reputed institutions were witnessed the webinar. The webinar is started at 11:00 AM with formal Welcome for the speaker, Mr. Basavesh and Mr Shivanand D.V by Dr. T.G.Manjunath, Associate Professor and Head of the Department, Department of EEE, SVIT. The speaker gave interesting talk on the review of Electrical switchgear and its applications.

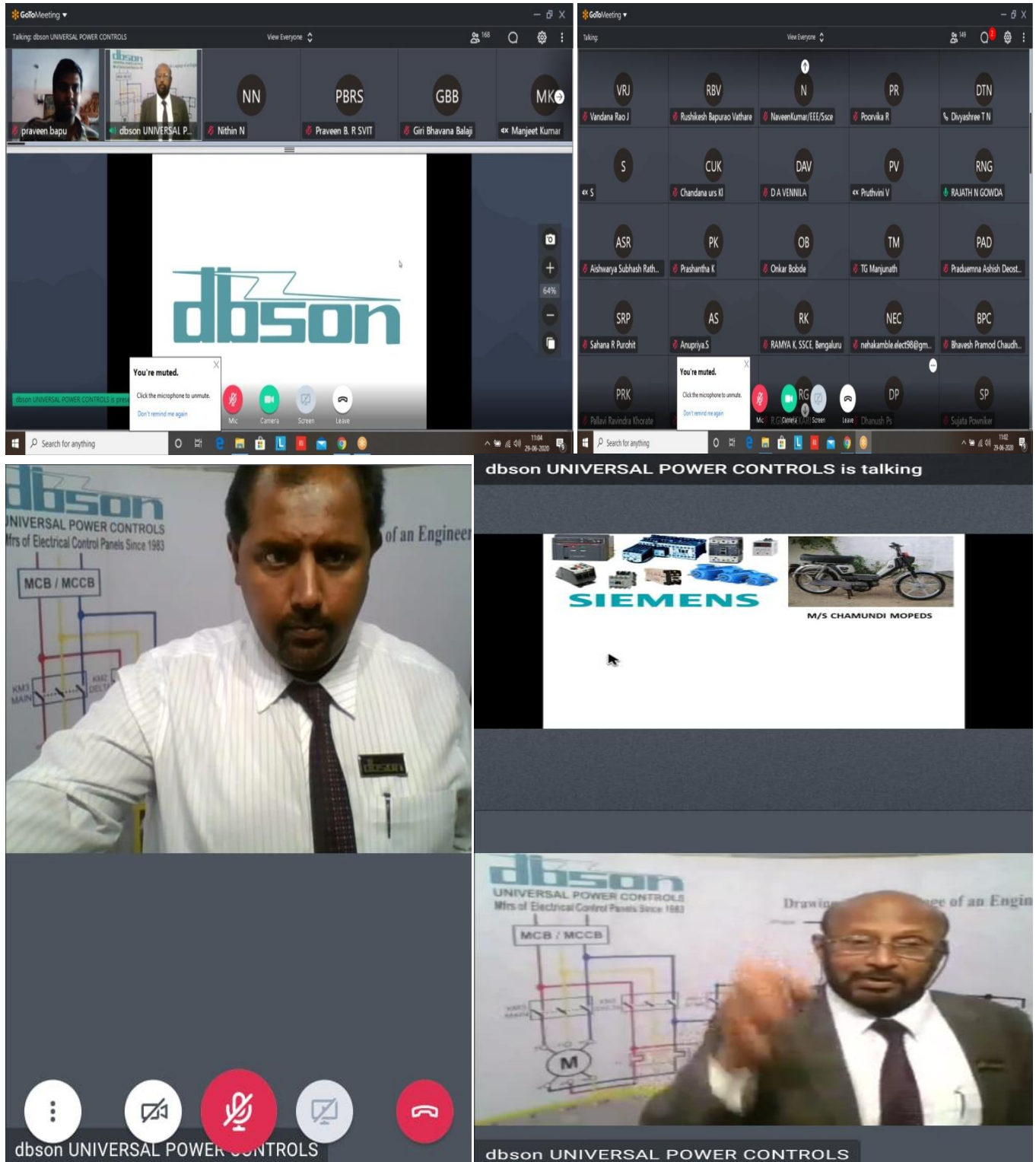
Webinar Coordinators:

Faculty Coordinators

Prof Praveen B.R, Assistant Professor, Department of EEE

Prof Sanjay.S, Assistant Professor, Department of EEE

Photographs Taken during the Webinar:





SAI VIDYA INSTITUTE OF TECHNOLOGY

Rajanukunte, via Yelahanka, Bengaluru -64



In Association with IEEE-PES Student Chapter

Department of Electrical & Electronics Engineering

Organising Webinar on

Electrical-Protection, Switchgear & Its Applications

Date: 29th June 2020

Time: 11.00 AM to 1.00 PM

Platform: GO TO Meeting



GoToMeeting

Free Registration



UNIVERSAL POWER CONTROLLERS

22, Sathyamangala Industrial Area, Tumkur-04
Ph :- 9743534933 / 9844051072 upc@dbson.net www.dbson.in

Speaker: Mr. Shivanand D. V. BE Elect. C E O,

An Entrepreneur having experience of 37 Years in the field of Manufacturing, Design, Production, Project Execution of various Electrical Control Panels like Viz., Motor Control Centers – MCC, Power Control Centers – PCC, Synchronizing Panels, Automatic Power Factor Correction Panels - APFC, Automation Control Panels.



Convener: Dr. Manjunath TG
HOD Dept of EEE

Coordinator: Prof Praveen B R
Prof. Sanjay S

E-Certificate will be provided to all the participants



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Date: 11-08-2020

Report on Webinar -2: Smart Grid in Distribution Systems

Department of Electrical and Electronics Engineering, Sai Vidya Institute of Technology, Bangalore in association with IEEE Power and Energy Society SVIT Student Chapter conducted Webinar on the topic “Smart Grid in Distributed Systems”.

Date of the Event: 13th July 2020 at 11:00 AM

Speaker Details:

- Mr. V. Suresh Babu, working as Assistant Director | NPTI (PSTI) | Ministry of Power | Govt. of India Bangalore, Karnataka, India.
- He has been giving training and certification for electrical engineers from various electrical entities across the country and limited foreign countries.
- He has been performing 3rd party inspection of HV & EHV Electrical equipments.
- He is associated as All India “Power System Operators” co-coordinator and involved as a “Power System Operation” trainer for Load Dispatch Engineers across the country, since 2010.
- He is involved in certifying the System Operators from various Load Dispatch Centers across the country for the following areas of expertise
 - Power System Operation
 - Power System Reliability
 - Renewable Energy Sources & Grid Integration
 - Regulatory Framework in Power Sector
 - Power System Logistics (Automation)
 - Power Market Specialist
- Involved in testing of Relays like Electromechanical, Solid state and Numerical Relays and that includes the following protection schemes - Bus Bar Protection, Transformer Protection, Generator Protection, Line Protection, etc.
- Involved in HV testing and this includes testing of HV equipments like Transformers, Insulators, Bushes and Lightning arrestors, etc.

Online webinar Platform: Google Meet Application

Webinar meeting Link: <https://meet.google.com/nft-hkfc-neh>

Timings: 11:00 AM to 1:30 PM

Total Number of Registrations: 500+

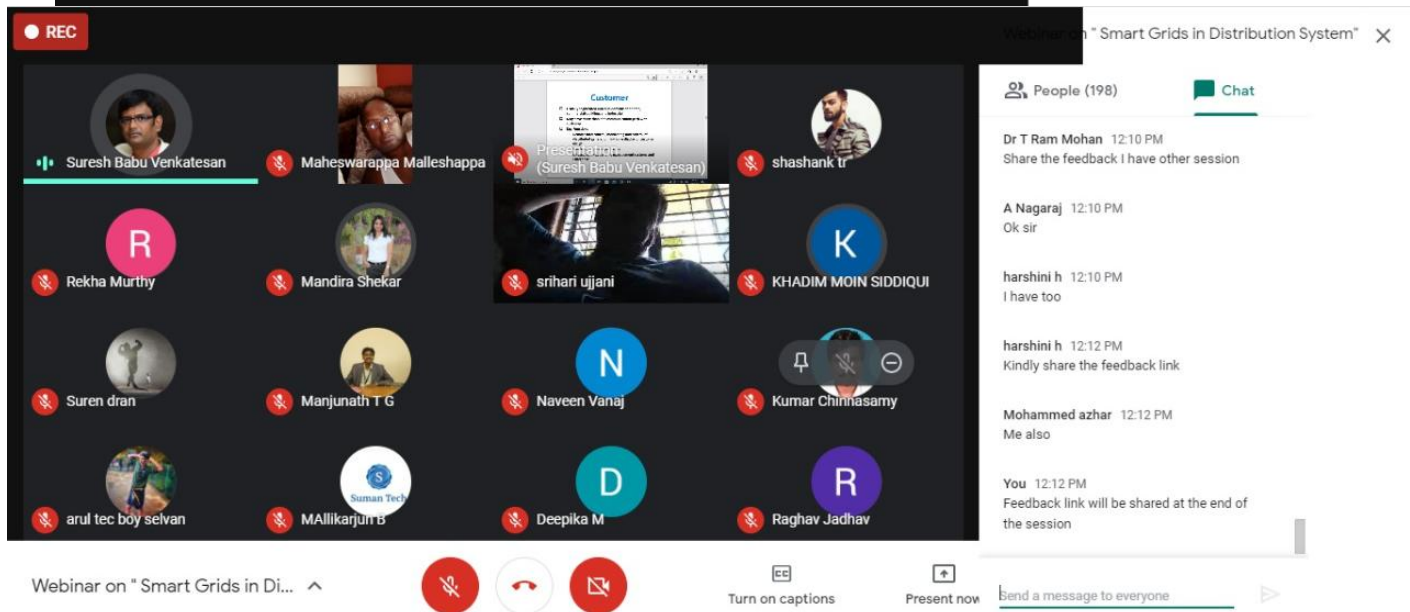
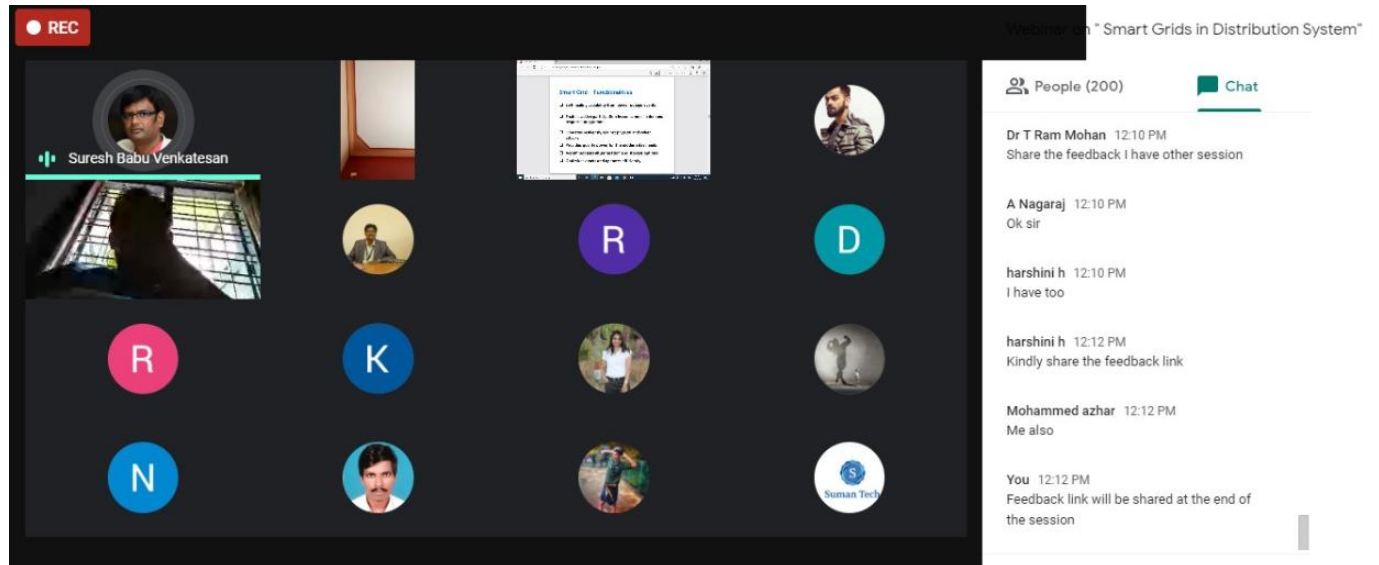
More than 500+ participants are registered for the webinar and more than 120 Participants actively participated from various Industry professional's/ Faculty member's/ Research scholars/ students from many reputed institutions were witnessed the webinar. The webinar is started at 11:00 AM with formal Welcome for the speaker, Mr. Suresh Babu by Dr. T.G.Manjunath, Associate Professor and Head of the Department, Department of EEE, SVIT. The speaker gave interesting talk on the review of Smart Grid and its applications.

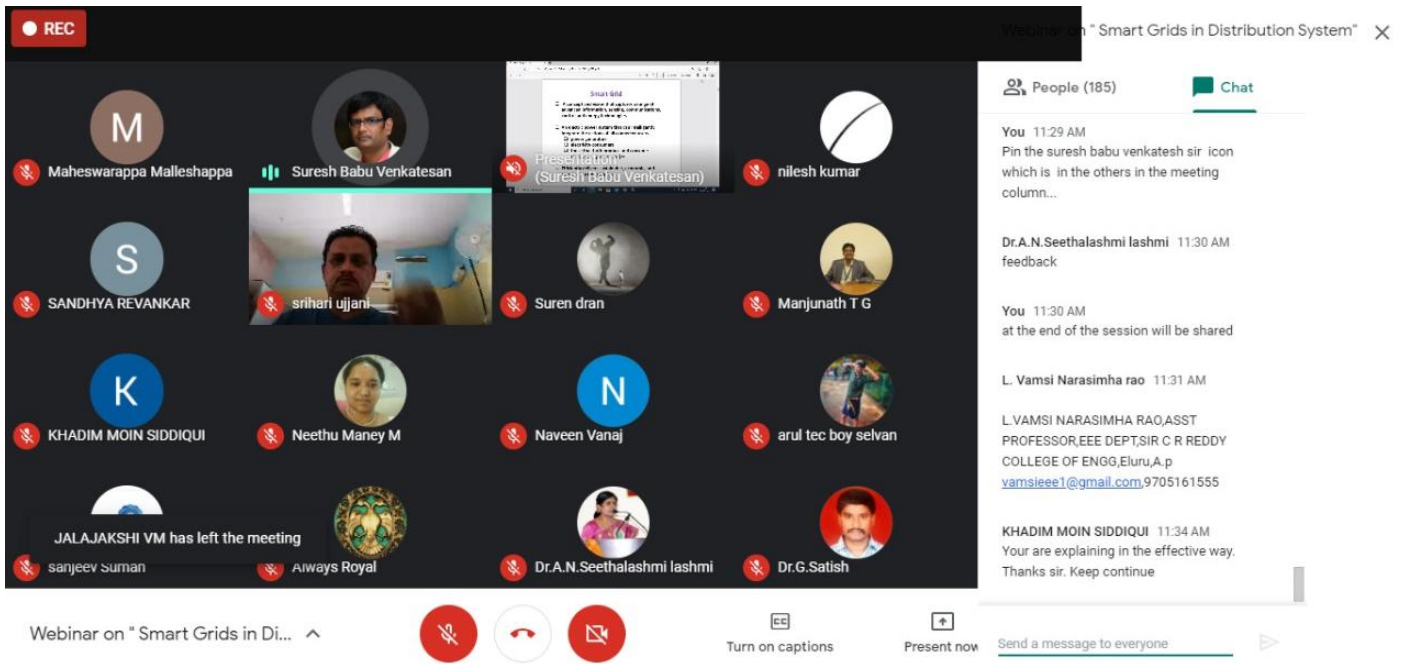
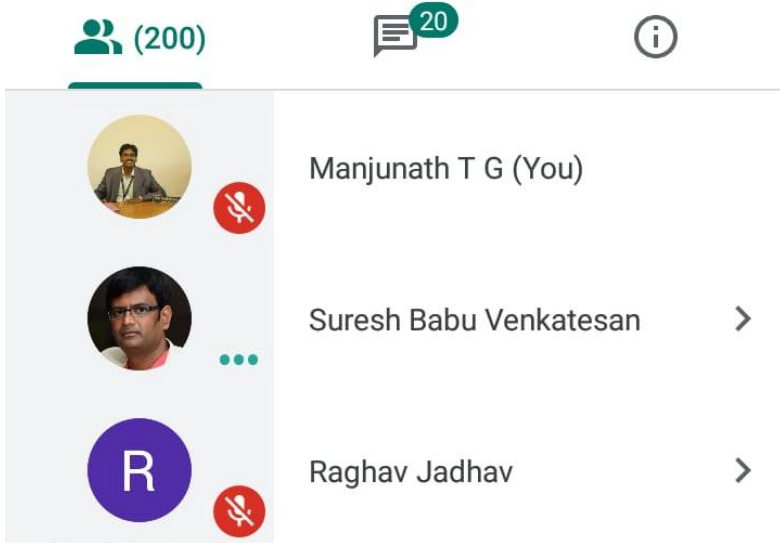
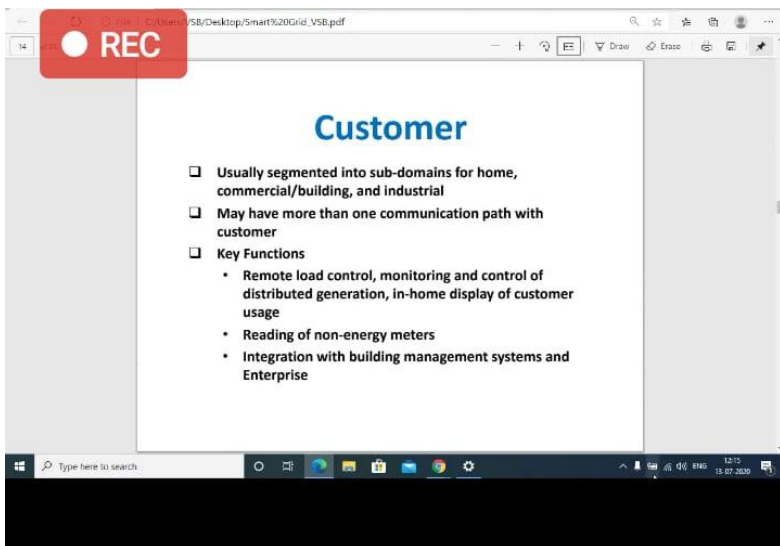
Webinar Coordinators:

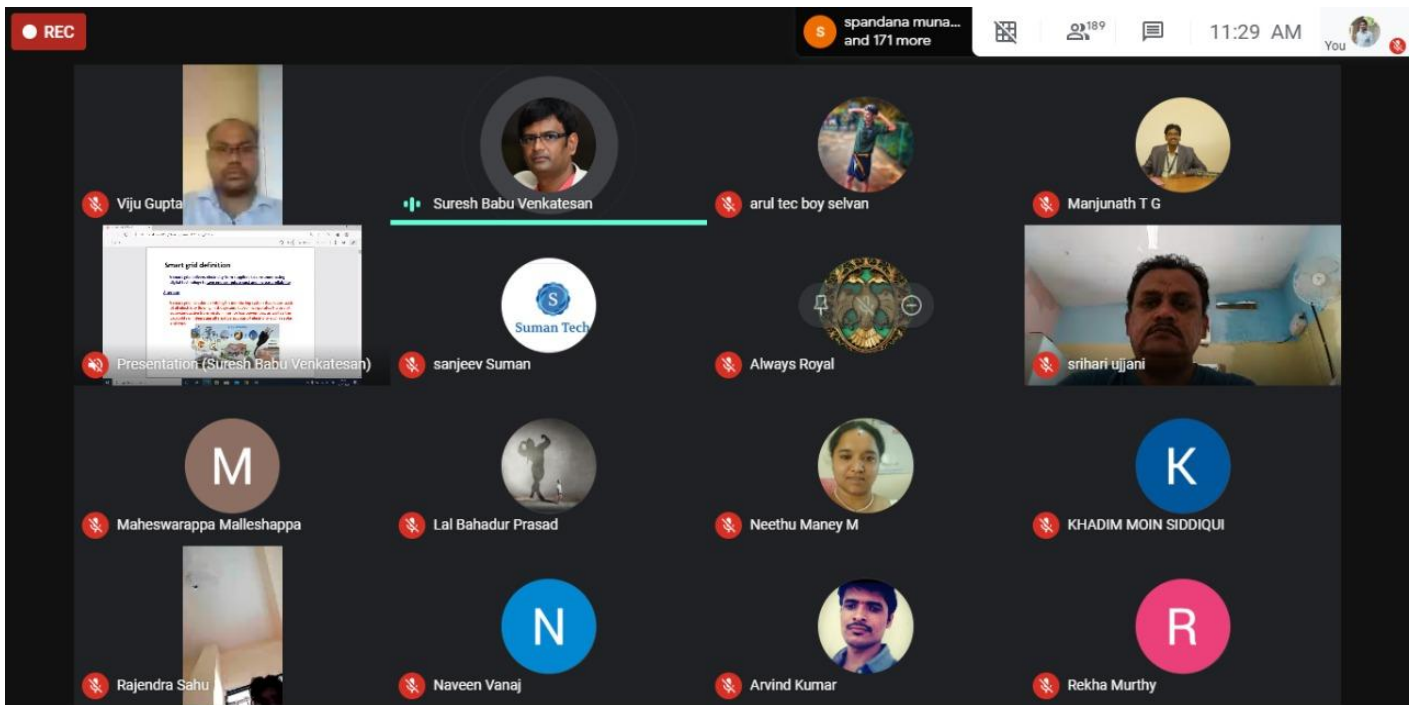
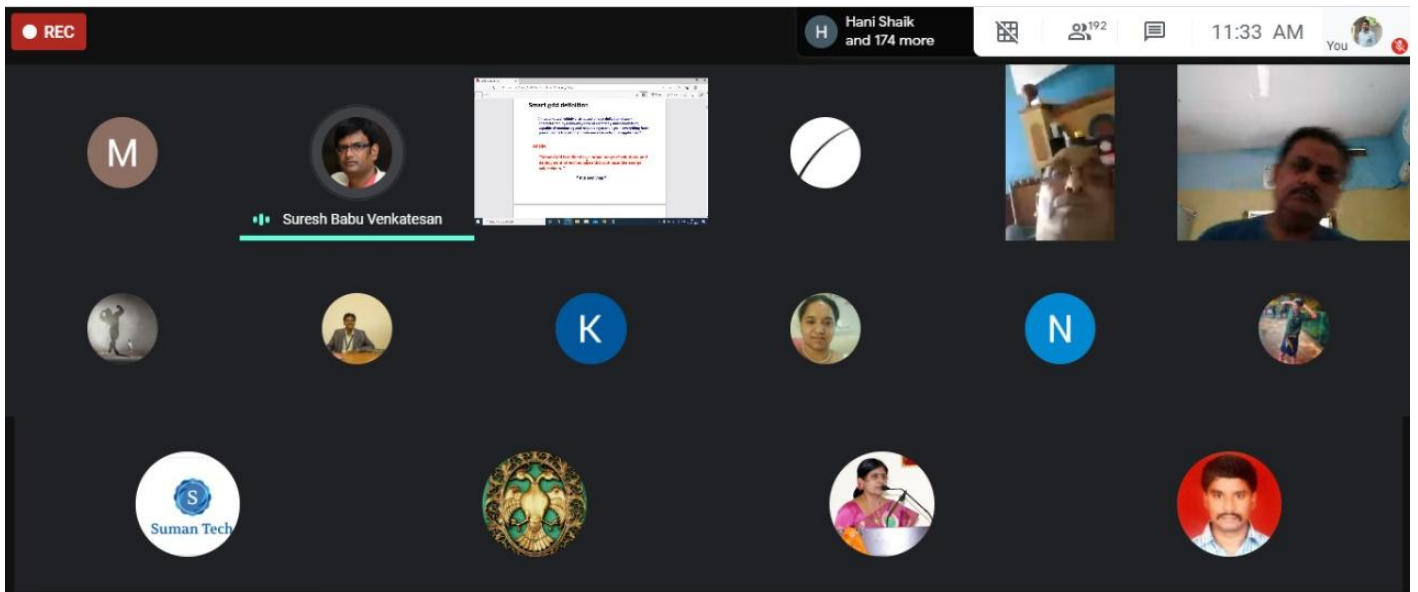
Faculty Coordinators

Prof Praveen B.R, Assistant Professor, Department of EEE

Photographs Taken during the Webinar:







Webinar on " Smart Grids in Distribution Syst... ^



Turn on captions

Present now





SAI VIDYA INSTITUTE OF TECHNOLOGY

Rajankunte, Bengaluru-560064



Department of Electrical & Electronics Engineering

In Association with IEEE-PES Student Chapter

Organizing Webinar on

Smart Grid in Distribution Systems



Resource Person

Mr. V Suresh Babu

Assistant Director,
National Power Training Institute,
(Ministry of power, Govt. of India)
Bangalore, Karnataka.

Coordinator,
All India "Power System Operators"

Free
Registration

Date: 13th July 2020 (Monday)

Time: 11.00 AM to 12.30 PM

Platform: Google Meet

Registration link: <https://bit.ly/IEEEPESVITWEB2REG>

Prof. Praveen B R
Faculty Coordinator

Dr. T G Manjunath
HOD, EEE

Dr. H S Ramesh Babu
Principal, SVIT

E-Certificate will be provided to all the participants



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Date: 20-07-2020

Report on Webinar -3: "Design and Modeling of Power Electronic converters"

Department of Electrical and Electronics Engineering, Sai Vidya Institute of Technology, Bangalore in association with IEEE Power and Energy Society SVIT Student Chapter conducted Webinar on the topic "Design and Modeling of Power Electronic converters"

Date of the Event: 18th -20th July 2020 at 11:00 AM

Speaker Details:

- Karimulla Baig currently working in Rohm Semiconductor India Pvt Ltd as Senior Engineer, Application Engineering. He is having 11 years of Experience in the Power electronics Design in AC/DC & DC/DC Power supplies, Lighting and Battery chargers covering consumer, Industrial and Automotive segments.
- Graduated from Bangalore University in Electrical and Electronics from East point college. Started career with development of High Power supplies for industrial application like Solar Inverter, micro inverter at Tek Bridge Company, moving forward have been part of companies like Tecnomic, Swelect Energy systems Ltd enhancing with development of Battery Charger, Emergency light, DC-DC Converter for different applications and defining the market need on the Power supplies.
- Shwetha DV currently working in Rohm Semiconductor India Pvt Ltd as Junior Engineer, Application Engineering Group. She is having 2 years of Experience in the Power electronics Design and testing in AC/DC Power supplies.
- Graduated from VTU University in Electrical and Electronics from BMS Institute of Technology and Completed Mtech from Manipal Institute of Technology in Power Electronics and Drives.
- Published Paper an LCL Filter in wind energy conversion system in IEEE explorer in 2018 and Comparison of different controlling techniques in IJPED Journal 2019(Vol 10). Completed Internship in Wipro as a lighting design engineer.
- Started career in Rohm semiconductor as a Junior application engineer, with development of Low and medium Power supplies for Industrial applications.

Online webinar Platform: Google Meet Application

Webinar meeting Link: <https://meet.google.com/tkd-uviv-qsk>

Timings: 11:00 AM to 1:00 PM

Total Number of Registrations: 369

More than 350 participants are registered for the webinar and more than 160 Participants actively participated from various students from many reputed institutions were witnessed the webinar. The webinar is started at 11:00 AM with formal Welcome for the speaker, Karimulla Baig and Shwetha D V by Prof. Rekha Murthy, Assistant Professor Department of EEE, SVIT. The speaker gave interesting talk on the Design and Modeling of Power Electronic converters.

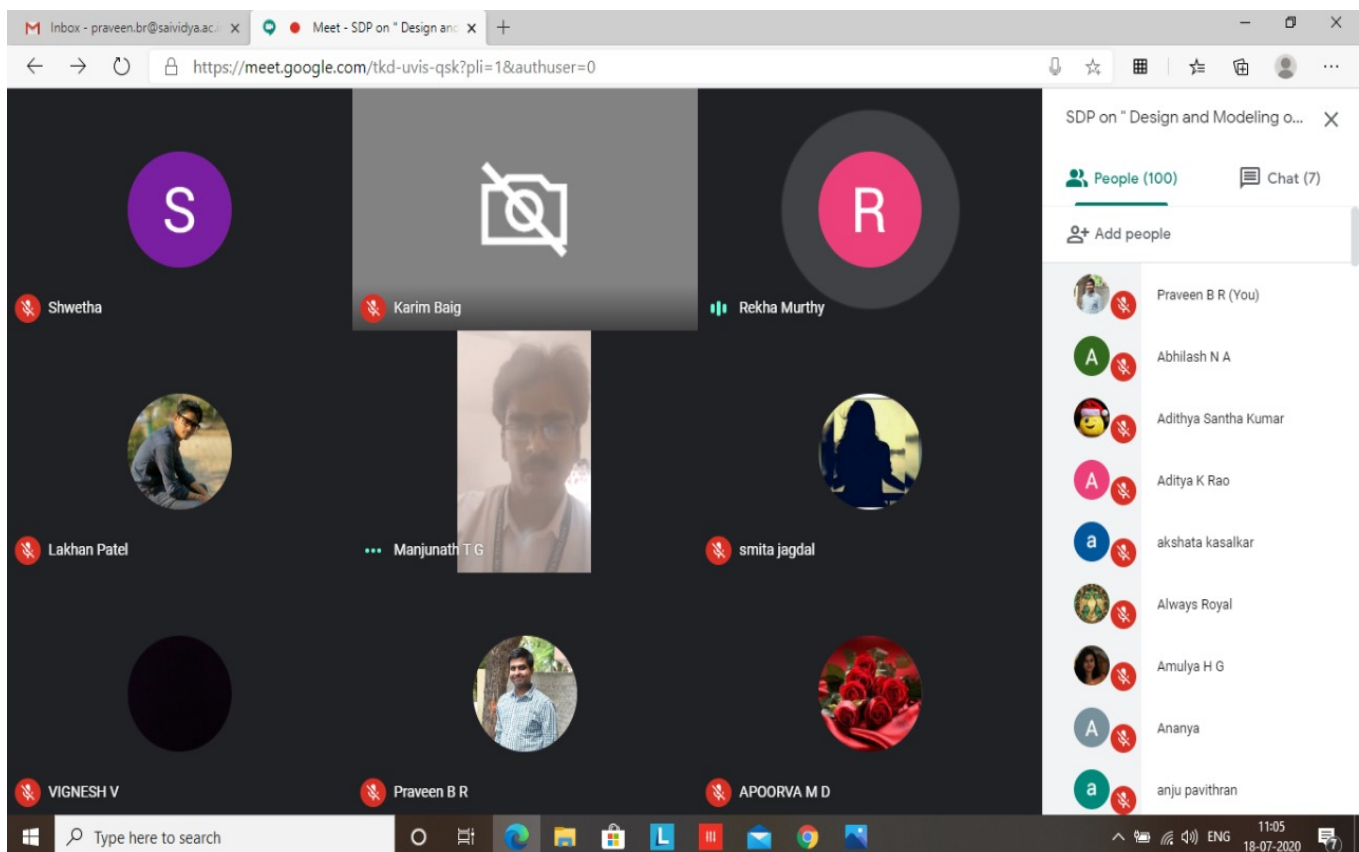
Webinar Coordinators:

Faculty Coordinators

Prof Rekha Murthy, Assistant Professor, Department of EEE

Prof Amulya H G, Assistant Professor, Department of EEE

Photographs Taken during the Webinar:



REC

Specifications

BUCK Converter Specification			
Parameter		Value	Unit
Input Voltage	Vin (min)	9	V
Input Voltage	Vin (max)	16	V
Efficiency	η	0.9	
Load Regulation		5	%
Line Regulation		5	%
Start up Voltage	Vin(ON)	13	V
OFF Voltage	Vin(Off)	11	V
Output Voltage	Vout	5	V
Stand by Current	Istand	<2	mA
Output Current	Iout	0.75	A
Operating Frequency	Fsw	300000	Hz

Shashank BK has left the meeting

Presentation (Karim Baig)

SDP on " Design and Modeling o..."

People (113) Chat

- HARSHINI V
- Harshitha L
- JALAJAKSHI VM
- Jinanamurthy R
- Karim Baig (Presentation)
- Karim Baig
- Karthik S S
- Kavya Shree
- KIRAN KUMAR
- Kumar Rathod
- Kusuma H Joined
- Lakhan Patel

The screenshot shows a simulation window with a graph of output voltage (Vout) over time. The y-axis ranges from 0.0V to 5.0V, and the x-axis ranges from 0ms to 10ms. The graph shows a transient response where the output voltage rises from 0V to a steady-state value of approximately 5.0V. Below the graph is a circuit diagram of a buck converter. The circuit includes a 12V DC source (V1), a MOSFET (M1), a diode (D1), an inductor (L1), and a capacitor (C1). The MOSFET is labeled 'PWL500 10.0 for 10u for 1000'. The capacitor is labeled '100uF'. The inductor is labeled '10mH'. The diode is labeled '1N4148'. The MOSFET gate is driven by a pulse generator (V2).

Shwetha

00:58:10

00:27:16

Windows taskbar: Type here to search, 12:50, 18-07-2020

11:21 AM

REC

1. Inductor Ripple Current Derivation

11:44 AM

REC

(88)

Praveen B R (You)

Rekha Murthy

Amulya H G

Tejas D N

Others in the meeting (84)

Aasish V G

(84)

Praveen B R (You)

Manjunath T G

Rekha Murthy

Rekha Murthy

Others in the meeting (80)

19107020 HICET - STUDENT EIE

12:20 PM

REC

Flyback converter

1:03 PM

REC

(82)

Karthik S S

kranthi kumar

Kubera U

Lakshmikanth Kadge

Mahadev M

(83)

Praveen B R (You)

Rekha Murthy

Manjunath T G

Rekha Murthy

Others in the meeting (79)

19107020 HICET - STUDENT EIE



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Date: 12-08-2020

Report on International Webinar -4: Power Quality, Control and DC Micro grid

Department of Electrical and Electronics Engineering, Sai Vidya Institute of Technology, Bangalore in association with IEEE Power and Energy Society SVIT Student Chapter conducted 3 day International Webinar on the topic “Power Quality, Control and DC Micro grid”.

Date of the Event: 23rd to 25th July 2020 at 11:00 AM

Day 1: Power Quality / Harmonics and need of Artificial Intelligence

Speaker Details:

- Mr. M.R Srinivas, working as CTO, Harmonizer India Private Limited, “Edison Expert” in Power Quality, India / UAE / Canada.
- He has 15 years of experience in PQ domain.
- He has 20+ years of expertise in Electrical Engineering design, network modeling, project design / planning for electrical network analysis.
- Expert in machine learning algorithm for electrical networks
- He has filed few patents.
- He is expert in load flow calculations, harmonics flow calculations.

Online webinar Platform: Google Meet Application

Webinar meeting Link: <https://meet.google.com/stt-kcsc-men>

Timings: 11:00 AM to 1:30 PM

Total Number of Registrations: 500+

More than 500+ participants are registered for the webinar and more than 120 Participants actively participated from various Industry professional's/ Faculty member's/ Research scholars/ students from many reputed institutions were witnessed the webinar. The webinar started at 11:00 AM with formal Welcome for the speaker, Mr. M.R.Srinivas by Prof Rekha Murthy, Assistant Professor, Department of EEE, SVIT. The speaker gave interesting talk on the load flow calculations, harmonics calculations for green field projects, harmonic filter design for LV/ MV systems.

Webinar Coordinators:

Faculty Coordinators

Prof Praveen B.R, Assistant Professor, Department of EEE

Photographs Taken during the Webinar:

SAI VIDYA
INSTITUTE OF TECHNOLOGY
 Rajankunte, Bangalore-560064, Karnataka, India
 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
 In Association with IEEE-PES student
Organizing 3-Day International Webinar on
Power Quality, Control and D C Microgrid

Mr. Manoj Soni
 CEO, Harmonizer India Pvt Ltd,
 MBA from Strathelyde University,
 Glasgow, UK

SPEAKER
Mr. M R Srinivas
 CTO, Harmonizer India Pvt Ltd,
 "Edison Expert" in Power Quality
 India/UAE/Canada

DAY 1 - 23/07/2020
 11:00 am – 1:00 pm
 Topic:
Power Quality/Harmonics and need of Artificial Intelligence

About the Speaker
Mr. M R Srinivas - CTO, Harmonizer India Pvt

- ✓ CTO & Promoter of Harmonizer.
- ✓ 15 years of experience in PQ domain.
- ✓ 20+ years of expertise in Electrical Engineering design, network modelling, project design/planning/implementation, trouble shooting, software development for electrical network analysis.
- ✓ Expert in Machine Learning algorithms for Electrical networks / products / systems.
- ✓ Awarded as EDISON Expert in Power Quality.
- ✓ Part of Innovation team working on various innovations related to Power Quality.
- ✓ Filed few patents.
- ✓ Power Quality Solution design Expert.
- ✓ Published many White Papers in reputed magazines.
- ✓ Board of Study member at reputed colleges/deemed universities to deploy syllabus for BTECH / MTECH.
- ✓ Application Expert for Power Quality.
- ✓ Expert in Network modeling, Load flow calculations, Harmonic flow calculations, relay coordination etc.
- ✓ Having hands on experience in Load flow calculation, Harmonic flow calculations/simulations for green field projects, harmonic filter design, LV/MV systems, Active harmonic filters, Load balancing systems etc.
- ✓ Agile Software development Expert.

REC M Mrudhula S Iyengar is presenting R Rohith D and 143 more 11:28 AM You

Mathematical Representation!

Active Power (KW)
 Total Power (KVA)
 Reactive Power (KVAR)

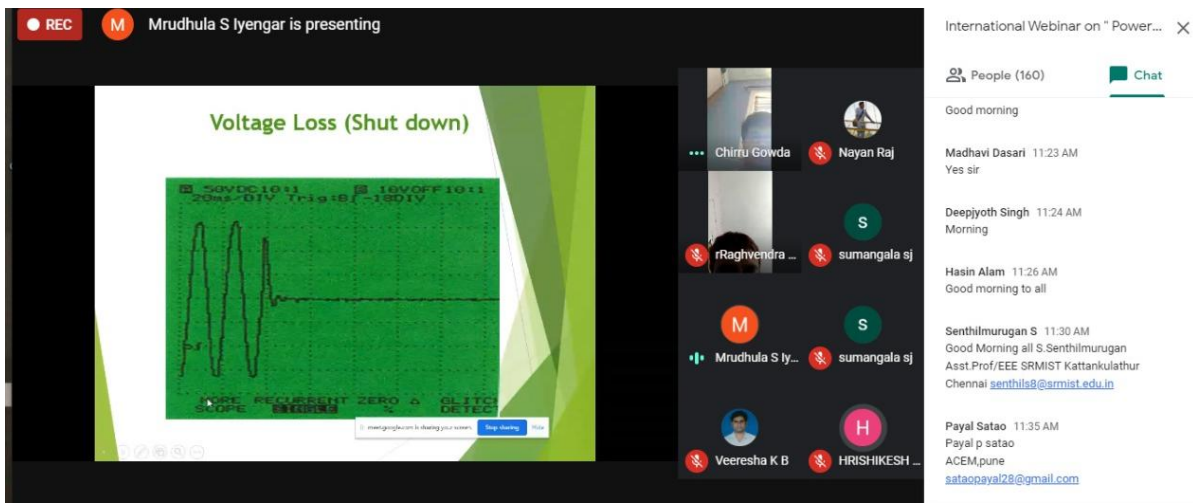
$$PF = \frac{KW}{KVA}$$

Supply Bus
 Load
 Capacitor

- ✓ Power factor is the relationship between active power and apparent power.
- ✓ PF = active power / apparent power
- ✓ Power Factor can never be greater than 1.00
- ✓ Power Factor at best can be equal to 1.00
- ✓ Usually PF is always "Lag" (Inductive)
- ✓ Some times P.F can be "Lead"
- ✓ (Capacitive)

Participants: Vedahshi M, Nayan Raj, rRaghvendra sin..., sumangala sj, Mrudhula S Iyen..., sumangala sj, Veerasha K B, Deepjyoth Singh, Praveen B R, Naveen Kumar.c.v, Nayana nayana..., sissu

International Webinar on " Power Quality, Co... Turn on captions Mrudhula S Iyengar is presenting



Day 2: Digital Control of Substation – Present day Scenario

Speaker Details:

- Mr. B.L. Mahesh Kumar, Senior Application Engineer, Customer Hero Global Awardee, General Electric (GE), UAE.
- He is Customer Hero Awardee for providing solutions in power system protection and automation in utilities, oil and gas.
- He is expertise in commissioning engineer in Siemens Abu Dabi.
- He has worked as faculty in NIT, Suratkal.

Online webinar Platform: Google Meet Application

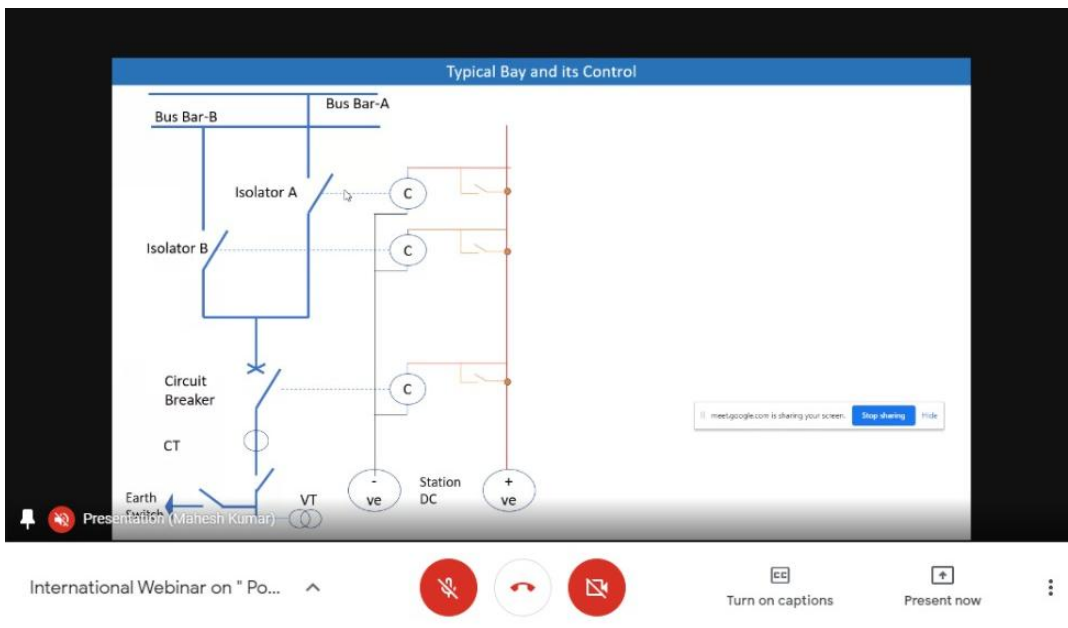
Webinar meeting Link: <https://meet.google.com/stt-kcsc-men>

Timings: 11:30 AM to 1:30 PM

Total Number of Registrations: 500+

More than 500+ participants are registered for the webinar and more than 120 Participants actively participated from various Industry professional's/ Faculty member's/ Research scholars/ students from many reputed institutions were witnessed the webinar. The webinar started at 11:30 AM with formal Welcome for the speaker, Mr. M.R.Srinivas by Prof Rekha Murthy, Assistant Professor, Department of EEE, SVIT. The speaker gave interesting talk on the protection schemes, Industry protection control and automation in transmission and distribution.

Photographs Taken during the Webinar:



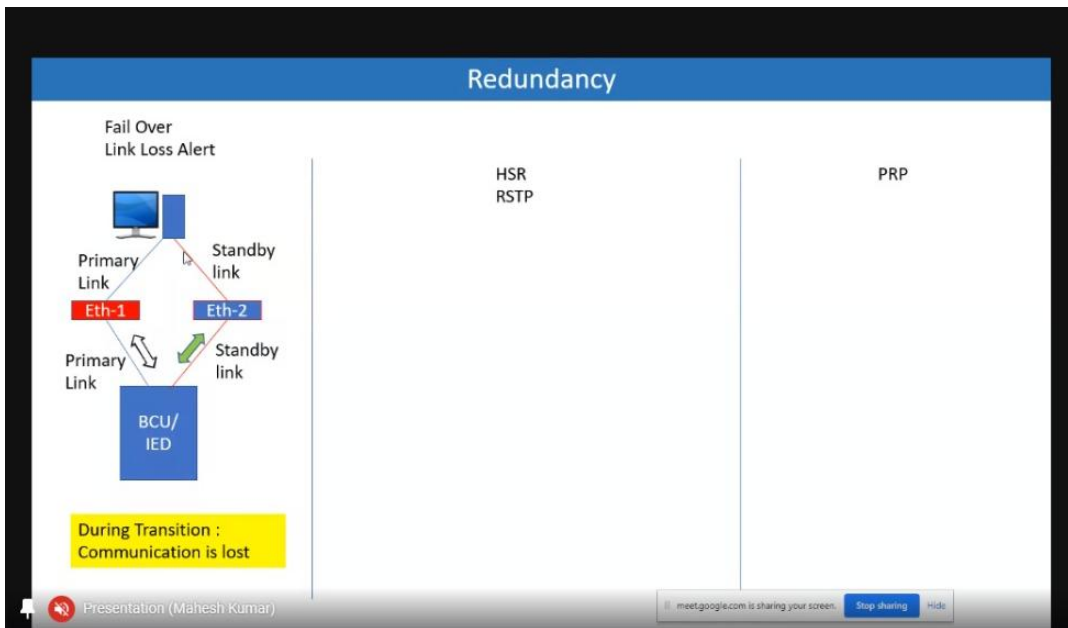
International Webinar on " Power... X

People (135) Chat

Add people

- Praveen B R (You)
- A SARADHA DEVI
- Abdul Rahman
- Abhilash N A
- Aditya K Rao
- Agees Kumar
- Akanksha Binay
- akila smily

Turn on captions Present now



International Webinar on " Power... X

People (156) Chat

Hasin Alam 12:11 PM
No ppt

Praveen B R 12:11 PM
Please click on Maheesh kumar for PPT

Hasin Alam 12:12 PM
Yes came thanks

Subrat Kumar Mohanty 12:12 PM
yes sir

Mahadev M 12:13 PM
S sir

Jahangeer Ballari 12:13 PM
Yes sir

Send a message to everyone

Day 3: DC Micro Grids

Speaker Details:

- Mr. Ganeshan Viswanathan , Managing Director, Viswajyothi Technologies Pvt Limited and Mr. Damadoran, R&D Manager Viswajyothi Technologies Pvt Limited
- A position that utilizes skills in Power Electronics and Drives, Image processing, Expert systems and personal networking. With a Master of Engineering in Power Electronics and Drives,
- He has been working as a development engineer in industry and academia since 2005 with power electronics and Image processing.
- He has extensive experience with numerical design tools, and have experience working with industrial developers in product design.
- He used in gathering and converting external research into product development

Online webinar Platform: Google Meet Application

Webinar meeting Link: <https://meet.google.com/stt-kcsc-men>

Timings: 11:30 AM to 1:30 PM

Total Number of Registrations: 500+

More than 500+ participants are registered for the webinar and more than 120 Participants actively participated from various Industry professional's/ Faculty member's/ Research scholars/ students from many reputed institutions were witnessed the webinar. The webinar started at 11:30 AM with formal Welcome for the speaker, Mr. Ganeshan and Mr. Damodaran by Prof Rekha Murthy, Assistant Professor, Department of EEE, SVIT. The speaker gave Question and Answer Session where Dr T.G. Manjunath asked questions to the speakers on DC Micro grids and speakers answered his questions where it became an interactive session.

Photographs Taken during the Webinar:

The screenshot displays a Zoom webinar interface. The main content area shows a presentation slide with the following text:

SAI VIDYA
INSTITUTE OF TECHNOLOGY
Rajankunte, Bangalore-560064, Karnataka, India
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
In Association with IEEE-PES student
Organizing 3-Day International Webinar on
Power Quality, Control and D C Microgrid

Three speakers are listed with their photos and titles:

- Mr. Ganeshan Viswanathan**
Managing Director,
Vishwalotli Technologies Pvt.Ltd.
Bangalore
- Dr. T G Manjunath**
Associate Professor & HOD,
Dept. of EEE,
SVIT, Bangalore
- Mr. Damodaran**
R&D Manager,
Vishwalotli Technologies Pvt. Ltd.
Bangalore

The slide also includes the following details:

- DAY 3- 24/07/2020**
- 11:15 am - 12:45 pm**
- Topic: D C Microgrids**
- Q & A Session (Technical War)**

The Zoom interface shows a recording indicator (REC) and the presenter's name, Dhamodharan Selvaraj. A list of 120 participants is visible on the right side of the screen, including names like Praveen B R (You), A SARADHA DEVI, Abhilash N A, Adithya Santha Kumar, Aditya K Rao, Agees Kumar, Aishwarya Ravi, and Akash Bhole. The main video area shows a slide titled "Inside the Train compartment" with a photograph of a control panel.

Advantages



Participant list and video thumbnails:

- D Dhamodharan...
- g ganeshan vis...
- R Raghendra ...
- Maheswarapp...
- SYEDA MAAZ...
- Manjunath T G
- Vinny Koram
- Rekha Murthy

Participant list:

- Praveen B R (You)
- A SARADHA DEVI
- Abhilash N A
- Aditya K Rao
- Agees Kumar
- Aishwarya Ravi
- Aakash Bhople
- Akshay A



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Date: 30-07-2020

Report on Webinar -5: "Need of UHV Transmission in India - Recent Advances"

Department of Electrical and Electronics Engineering, Sai Vidya Institute of Technology, Bangalore in association with IEEE Power and Energy Society SVIT Student Chapter conducted Webinar on the topic "Need of UHV Transmission in India –Recent Advances"

Date of the Event: 30th July 2020 at 11:30 AM

Speaker Details:

- Dr. Subba Reddy B, working as Principal Research Scientist , High Voltage Laboratory, Dept. of Electrical Engg., IISC, Bangalore, Karnataka, India.
- His area of interest is EHV / UHV transmission, Insulation Engg, Pollution flashover & Multi stress aging studies on Ceramic / Composite Insulators.
- He has conducted Three Short term Training programs on "SOLAR ENERGY SYSTEMS", Organized by Interdisciplinary center for Energy Research (ICER-IISc),sponsored by M/s Bharat Dynamics Ltd, Hyderabad for Faculty, Industry, utilities, self and unemployed personnel.
- He has conducted Short term Course on "Condition Monitoring, Diagnostics & Testing of High Voltage Apparatus", "Recent Advances in UHV Transmission & Distribution" & "Photovoltaic and Applications to Smart Grid" under AICTE QIP for Engg. College Faculty & participants of Industry /R & D /Utilities
- He has published 205 publications which includes Journals, National/International Conference & other Technical reports.
- He has completed 283 Consultancy/Test projects & Consultancy projects in progress are BMRCL, BDA, DMRCL, UKICERI (Indo-UK)
- He has been giving training and certification for electrical engineers from various electrical entities across the country and limited foreign countries.
- He was Invited as a speaker at the 2nd Annual Technical conference on 4th Industry revolution in Power sector, held at Dubai & Presented two research papers at the 21st International Symposium on High Voltage Engg (ISH-2019) organized by Budapest School of High Voltage Engg, held at Budapest-Hungary.

Online webinar Platform: Google Meet Application

Webinar meeting Link: <https://meet.google.com/sor-ooiw-kyp>

Timings: 11:30 AM to 1:00 PM

Total Number of Registrations: 543

More than 500 participants are registered for the webinar and more than 200 Participants actively participated from various Industry professional's/ Faculty member's/ Research scholars/ students from many reputed institutions were witnessed the webinar. The webinar is started at 11:30 AM with formal Welcome for the speaker, Dr. Subba Reddy by Prof. Praveen B R, Assistant Professor Department of EEE, SVIT. The speaker gave interesting talk on the Need of UHV Transmission in India –Recent Advances.

Webinar Coordinators:

Faculty Coordinators

Prof Rekha Murthy, Assistant Professor, Department of EEE

Prof Amulya H G, Assistant Professor, Department of EEE

Photographs Taken during the Webinar:

The screenshot displays a Google Meet interface. The main window shows a presentation slide titled "Power Generation, Transmission / Distribution". The slide content includes:

- Diagram:** A flowchart showing the power sector components: 1. ELECTRIC GENERATING STATION (with wind turbines and solar panels), 2. RECEIVING STATION, 3. DISTRIBUTION STATION, and 4. RESIDENTIAL CUSTOMER. It also shows connections to COMMERCIAL and INDUSTRIAL CUSTOMERS. Key components labeled include Overhead transmission lines, Station switchyard, Underground transmission lines, Distribution lines, Sub-transmission lines, and Pod-mounted transformer.
- Players in the Power Sector:**
 - GENERATORS:** Central/State GENCO, IPP, Captive
 - CTU:** Inter-State Trans. system,
 - STU:** Intra-State Tr./Sub-tr. system
 - DISCOMS:**
 - Consumers:** Industries, household, Agriculture ...
- Bottom Diagram:** A voltage level diagram showing a power flow from 66/132/220/400/765 kV through a High-voltage transmission line, a Step-down transformer (substation), and another Step-down transformer to 11 kV, and finally to 230 V.

The meeting details sidebar on the right shows 173 people in the meeting. The list includes:

- Deepika Rengasamy
- Deepjyoth Singh
- dhananjay singh (Joined)
- DILIP KUMAR K
- Divya Akoju
- Divya Vidyasagar
- Dr Subba Reddy
- Dr Subba Reddy (Presentation)
- Dr. C V Mohan

A notification at the bottom left of the meeting window states: "DEEPAK.R.PATIL P EEE has left the meeting".

REC S Sri Killer is presenting

Substations

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Presentation (Dr Subba Reddy)

Meeting details

People (204) Chat

Hitesh Jasrotia 12:23 PM
Such research work shall definitely facilitate in better growth and development of the country in the production and better use of electricity.

Dnyanadev Hundarad 12:24 PM
Send us ppt sir it's good

Omkar Todkar 12:24 PM
Please send the ppt after session
omkar11999@gmail.com

satyendra yadav 12:24 PM
Please send the feedback link to my mail
satya1997tharu@gmail.com

Velmurugan R 12:24 PM
Kindly send ppt velsvictor@gmail.com

Send a message to everyone

REC

Research / Course Programs @ IISc Bangalore

Sl No.	Research Programs	Course Programs	UG Program
1	PhD (Reg/Direct)	M.Tech/MTech (Research) - thro: GATE	BS (Research) – 4 year & MS (Research) thro: KVPY/JEE etc
2	Int PhD	M.Mgmt/MDeS	
3	ERP-PhD, QIP-PhD		
4	Post-Docs	National/International	DST/SERB/IISc etc

- Summer Research Fellowship Programs thro: Indian Academy of Sciences, Bangalore / IISc: available for Students / Teachers,
- IISc: Short term visitors' program (PhD students of other Universities)
- Proj Assts, Research / Proj Associates etc

•Details for Admission, FEE Structure /Scholarship etc : www.iisc.ac.in

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Click to add notes

Presentation (Dr Subba Reddy)

Meeting details

People (169) Chat

Deepika Rengasamy

Deepjyoth Singh

DILIP KUMAR K

Divya Akoju

Divya Vidyasagar

Dr Subba Reddy

Dr Subba Reddy (Presentation)

Dr. C V Mohan

Dr. Neha Dhiman

REC

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Evolution of Grid Interconnection in India

Local 1950's

State 1960's

Regional 1970's

National 1990's

Abhilash N A has left the meeting

Meeting details Meeting details ^

Turn on captions Present now

Meeting details X

People (197) Chat

Deepjyoth Singh 11:58 AM
There are two different Dr Subba Reddy profiles, one is for audio and the other is for the presentation

Dwaipayan Bhounick 11:58 AM
Voice is breaking sir

satyendra yadav 11:59 AM
Slides are not visible sir

Neeraj Kumar 11:59 AM
Voice is not clear

You 11:59 AM
Voice is clear

please check your network issues

Send a message to everyone

REC

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Research Challenges

- Better Insulation design, Diagnostics & condition monitoring – Reliable methods onsite (Nano-dielectric, Bio- dielectric, self healing insulation methods)
- Design of new materials with designed characteristics
- Compact transmission lines (GIL, GIS, Cables) and air substations (VFTO, particle initiated BD etc in case of GIS...)
- Up-gradation of existing lines (newer conductors.. HTLS..)
- Insulation for UHV power equipments/transmission line elements
- Power & Instrument transformers, Cables – Methods of detecting incipient faults...
- Circuit breakers
- Surge arrestors / Composite/Ceramic Insulators – Pollution/Aging performance etc
- Bushings

Applications of HV Engg: Food processing, Electronics, material processing etc

Rakshitha M Kurdekar has left the meeting

Presentation (Dr Subba Reddy)

Meeting details Meeting details X

People (207) Chat

power transmission lines become to widespread?

Lalitha Shankar 12:46 PM
Thank you sir

Siddu Hulimani 12:46 PM
Very informative session sir thanks

Bijin 219905 12:46 PM
YES SIR

Prashant Rajpoot 12:46 PM
How the supply of reactive power supports the voltage of the transmission lines?

Vasudevan Parthiban 12:46 PM
Please provide a feedback link sir

Send a message to everyone

REC S Samprerana gupta is presenting

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STANDARD TRANSMISSION VOLTAGES

- Voltages adopted for transmission of bulk power must conform to standard specifications formulated in all countries (internationally accepted).
- L-L voltages adopted in India as per IS Std are:

Nominal System Voltage (kV)	132	220	400	765	1150
Max Operating Voltage (kV)	145	245	420	800	1200

- Maximum operating voltages specified should in no case be exceeded in any part of system, since insulation levels are designed based on these values..
- Primary responsibility of a design engineer to provide sufficient & proper type of reactive power at suitable places in the system.

Presentation (Dr Subba Reddy)

Meeting details X

People (203) Chat

- presentation
- Senthamarai Kannan 12:06 PM
good afternoon to all
- Prashant Rajpoot 12:06 PM
nice sessoin sir jl...
- KARTHICK S 12:07 PM
yup
- ARYAN JADHAV 12:07 PM
We have feedback form?
- Ok
- Amulya H G 12:08 PM
yes it will be issued after the completion of the session

Send a message to everyone