KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
(An Autonomous Institute under Kakatiya University, Warangal)
(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)
Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.
काकतीय प्रैद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५
కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫
Estd : 1980
KITSW
NAAC - 'A' Grade accredited Institute (CGPA : 3.21)
MHRD NIRF-2019 Rank - 180
website: www.kitsw.ac.in | e-mail: principal.kitswgl@gmail.com | ✆ : +91 870 2564888 | Cell : +91 73825 20585

REPORT on Online National FDP

1- WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME

Micro Grid, Electric Vehicles and Allied Areas – 2020 (MGEVAA-2020)

1 – 5 June, 2020

Organized by

DEPARTMENT OF
ELECTRICAL & ELECTRONICS ENGINEERING

IN ASSOCIATION WITH

ISTE - KITSW

Sponsored by:

CONTENTS

FDP BROCHURE

ISTE Sponsored One Week Faculty Development Program (Online) on

Micro Grid, Electric Vehicles and Allied Areas

1st– 5thJune 2020

Organized by

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ABOUT THE INSTITUTE:

Kakatiya Institute of Technology & Science (KITS), Warangal was established in 1980; affiliated to Kakatiya University, Warangal and it became Autonomous Institution under Kakatiya University w.e.f year 2014. It is one of the premier institutions in the state of Telangana. It has attracted academicians of proven competence onto its faculty, placed its products in reputed organizations all over the World and gained recognition amongst academic circles. The Institute aims to prepare the students for meeting the challenges of the growing and changing needs of industry through delivering high quality technical education blended with training and research. The institute is approved by All India Council for Technical Education (AICTE), Accredited by NAAC 'A' Grade with a CGPA of 3.21, MHRDs NIRF-2019 Rank-180 and all the UG Engineering programmes are accredited by National Board of Accreditation (NBA) New Delhi.

ABOUT EEE DEPARTMENT:

The department of Electrical & Electronics Engineering (EEE) was established in the year 1994. The current intake in to UG program B.Tech (EEE) is 120 and PG program M.Tech (PE) is 18.
The department is accredited by NBA under Tier – 1 in the year 2019. The department has dedicated and qualified faculty with 3 Professors, 6 Associate Professors, 21 Assistant Professors with 11 Doctorates, 04 Faculty members submitted PhD thesis and 08 pursuing Ph.D. in reputed Institutions/ Universities.

ABOUT THE FDP:

Theme of the FDP:

As electricity is majorly produced from either renewable sources or from sources that emit no greenhouse gases thus EVs help in maintain energy by shifting dependence from non- renewable resources to renewable resources
The electrification of the public and private transportation sector is anticipated to yield significant upgrade in commercial and environmental benefits by evolving definite energy saving mechanism, which lessen the dependence on imported fuel and reduce the hazardous greenhouse gas emission. This chronicle amendment shifts the transportation towards the incorporation of battery powered electric vehicles into the distribution system and persuade adverse impacts on overall power quality. The control algorithms and optimization techniques play an important role in improving power quality and dynamics of distribution system.

Tentative Topics:

1. Design and Implementation of 1-phase Micro Grid using Wind, Solar and Small Hydro
2. Battery management System for Evs
3. Wireless Charging of EVs
4. Advanced Power Electronics Applications in Aerospace, EV and Renewable Energy
5. Power System Optimization including Renewable Energy Sources
6. Advanced Control Systems and Power Quality Analysis

Resource persons from NITs, Foreign Universities and Industry

Chief Patron
Dr. Alluri Murthy Raju
Chairman, KITS Warangal
Patrons
Capt. V. Lakshmikantha Rao
Secretary & Correspondent, KITS Warangal
Honourable MP (Rajyasabha)

Sri P. Narayana Reddy
Treasurer, KITS Warangal
Chairman
Dr. K. Ashoka Reddy
Principal, KITS Warangal
Convener
Dr. C. Venkatesh
Professor &HOD, EEED, KITSW
Coordinators
Dr. V. Rajagopal, *Professor, EEED, KITSW*
Dr. Sabha Raj Arya, *Associate Professor, SVNIT Surat*
Co-Coordinators
Dr. A. Madhukar Rao, *Asst. Professor, EEED, KITSW, 9963902827(amr.eee@kitsw.ac.in)*
Dr. D. Rakesh Chandra, *Asst. Professor, EEED, KITSW, 9492442236 (drc.eee@kitsw.ac.in)*

No Registration Fee

Registration Link
https://forms.gle/ZzvD9ow7YrHiAi1s8

Number of participants are limited to 150

Registrations will be closed by 5:00PM on 28-05-2020
Webinar links will be shared on 29-05-2020
Timings: 14:30 to 16:30
E-Certificate will be issued to participants who will attend for all 05 days sessions.

One Week Faculty Development Program (Online)
on
Micro Grid, Electric Vehicles and Allied Areas
(MGEVAA-2020)
1st– 5thJune 2020

Organized by

Department of Electrical & Electronics Engineering

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Warangal-506015 (Telangana), INDIA.
Tel (0870) 2564888, Fax: (0870) 2564320
Website: www.kitsw.ac.in

FDP SCHEDULE

ISTE Sponsored One Week Faculty Development Program (Online) on
Micro Grid, Electric Vehicles and Allied Areas
1st– 5thJune 2020

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE WARANGAL

(An AUTONOMOUS Institute under Kakatiya University-Warangal)
Opp: Yerragattu Gutta, Hasanparthy (M), Warangal-506015, Telangana, INDIA.

ISTE Sponsored One Week Faculty Development Program (Online) on
Micro Grid, Electric Vehicles and Allied Areas
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Day1	Day2	Day3	Day4	Day5
 **Dr. Mithun Bhaskar** *Head, Model Based Product Engg, Tata Elxsi, Trivandrum*	 **Dr. Sabha Raj Arya** *Associate Professor & Coordinator SVNIT Surat*	 **Dr. Papia Ray** *Associate Professor VSSUT, Odisha*	 **Dr. Ujwal Kalla** *Associate Professor MANIT Bhoopal*	 **Dr. Kalpana Ramesh Babu** *Assistant Professor NIT Surathkal*
Topic **EV Retrofitting**	Topic **DVR and DSC with Battery Charging**	Topic **SPA for fault location in a T and D network**	Topic **Design and Implementation of 1-phase MG using Wind, Solar and Small Hydro**	Topic **BMS for EVs**
 **Dr. Raj Kumar Garg** *Associate Professor SLIE & T Punjab*	 **Dr. Rajasekhar Reddy** *Assistant Professor SVNIT Surat*	 **Dr. S.N.Sharma** *Professor SVNIT Surat*	 **Dr. Surender Reddy** *Assistant Professor Woosong University, South Korea*	 **Dr. Sandeep Madishetti** *Research Scientist, EPGCERI, NTU, Singapore*
Topic **Recognition of PQ Disturbances**	Topic **Control And Synchroniza-tion of Grid Connected Multi-functional DGS**	Topic **Some Concepts in Advanced Control Systems**	Topic **Power System Optimization including RES**	Topic **APE Applications in Aerospace, EV and RE**

Day5
Dr. Phaneendra Babu Bobba
Professor, GRIET Hyderabad
Topic
Wireless Charging of EVs

Organizing Committee

 **Dr. K. Ashoka Reddy** *Principal, KITSW Chairman*	 **Dr. C. Venkatesh** *Prof. & HOD, EEED, KITSW Convenor*	 **Dr. V. Rajagopal** *Professor, EEED, KITSW Coordinator*	 **Dr. D. Rakesh Chandra** Asst. Professor, EEED,KITSW *Co-Cordinator*	 **Dr. A. Madhukar Rao** *Asst. Professor, EEED, KITSW Co-Cordinator*

Message by Principal and Head of the EEE Department

ISTE Sponsored One Week Faculty Development Program (Online) on

Micro Grid, Electric Vehicles and Allied Areas

1st– 5thJune 2020

Organized by

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Message by Principal, Professor K. Ashoka Reddy

Lock down motivating us to go for virtual (online) workshops. In the present scenario online FDPs are playing a key role for learning and knowledge transferring. I personally congratulate the department of EEE for taking the lead and conducting this type of online FDPs. I am conveying my sincere thanks to all keynote speakers for coming forward to share their knowledge in this platform and I am also congratulating all participants for registering in this workshop.

Message by HOD, EEE, Professor C.Venkatesh

In the coming days Electric Vehicles (EV) will play a vital role and at present researchers are also working on efficiency and feasibility of EVs. In the present day environment Microgrid is a buzz word which can also incorporate Renewable Energy Sources. I am congratulating coordinators for the initiation of the workshop and participants for showing interest towards this workshop.

Message by Coordinators & Co - Coordinators

Professor V. Rajagopal, Dr. Sabha Raj Arya,
Dr. D. Rakesh Chandra & Dr. A. Madhukar Rao




Micro Grid, Electric Vehicles and Allied Areas (MGEVAA – 20) is an online FDP conducted from 1st– 5th June 2020. There are 760 registrations for this FDP, out of that we could shortlist only 200 participants. The Participants include faculty and research scholars from prestigious Institutes like IISC and IITs and NITs and various good engineering Colleges across the country from 13 different states.

We had 11 speakers out of the 09 are national speakers and 02 are international speakers (out of that two are from industries). First day Dr. Mithun Bhaskar, MBD Head, Model Based Product Engg, Tata Elxsi, Trivandrum spoke on "xEV Autonomy, Retrofitting" and Dr. Raj Kumar Garg, Associate Professor, Sant Longowal Institute of Engineering & Technology, Punjab spoke on "Recognition of Power Quality Disturbances". Second day Dr. Sabha Raj Arya & Coordinator, Associate Professor, SVNIT Surat spoke on "Control algorithms for Custom Power Devices and its Applications" and Dr. Rajasekhar Reddy, Assistant Professor, SVNIT Surat spoke on "Multifunctional Control and Grid Synchronization of VSI in Distributed Generation Systems". Third day Dr. Papia Ray, Associate Professor, Veer Surendra Sai University of Technology, Odisha spoke on "Signal Processing Application for Fault Location in a Transmission and Distribution Network" and Dr. S.N.Sharma, Professor, SVNIT Surat, Gujarat spoke on "Four Problems in the Hamiltonian Jacobi-Bellman Equation". Fourth day Dr. Ujwal Kalla, Associate Professor, MANIT Bhoopal spoke on "Design and Implementation of 1-phase Micro Grid using Wind, Solar and Small Hydro" and Dr. Surender Reddy, Associate Professor Woosong University, South Korea spoke on "Optimal Operation of Power System with Renewable Energy Sources" and Last and fifth day Dr. Phaneendra Babu Bobba, Professor, GRIET Hyderabad spoke on "Wireless Charging of EVs", Dr. Kalpana Ramesh Babu, Assistant Professor, NIT Surathkal spoke on "Battery management System for EVs" and Dr. Sandeep Madishetti, Research Scientist, EPGC, ERI@NTU, Singapore spoke on "Advanced Power Electronics Applications in Aerospace, EV and Renewable Energy".

I thank all the resource persons for agreeing and giving a lecture at this FDP. I thank Management, Principal, Prof. Ashoka Reddy and HOD EEE, Prof. C. Venkatesh for encouraging and guiding us to conduct this FDP. I also thank the Faculty of KITS Warangal, faculty and research scholars of other colleges attending this workshop. I also thank Mr. Ajith, Assistant Professor and Mr Suresh Programmer DSL Lab for helping us for successful completion of FDP.

SPEAKERS BIODATA

Dr. Mithun Bhaskar:

Dr. Bhaskar is an influential engineering leader with a Ph.D in Computational Intelligence, known for leveraging emerging & disruptive technologies, build Centre of Excellences (COE's) to execute projects for products in multiple domains. 14 years of professional experience in leading MNCs and other organizations, with skills in creating physics based models, integrating testing with design, production code generation, rapid control prototyping and automating processes to accelerate development. Invited speaker at international and national seminars, author of technical papers and member of industry bodies such as IEEE, BIS and NIST.

Dr Bhaskar has built and managed 300+ world class Model based design embedded engineers at Tata Elxsi in multi disciplinary (Automotive, Rail, Avionics, Consumer Electronics, Medical Electronics & Robotics), multi geography BU's, delivering advanced embedded product design engineering services. The team has scaled up 525% with proportionate engagements in few years. He received IEEE MGA young Professionals Achievement Award for demonstrating leadership in 2012 and has submitted 5 patents.

Dr. Raj Kumar Garg :

Dr. Raj Kumar received the B.E. degree in Electronics and Instrumentation Engineering fr

om Punjabi University, Patiala, India, in 1994, the M.Tech degree in Instrumentation and Control Engineering from Punjab Technical University, Jalandhar, India, in 2005, and the Ph.D. degree from Indian Institute of Technology Delhi, New Delhi, India, in 2016.

He is currently an Associate Professor with the Electrical and Instrumentation Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, India. The institute was established by the Ministry Of Human Resource and Development (MHRD), Govt. of India. He has 20 Years of Teaching and 05 Years of industrial experience. His current research interests include power quality, digital signal processing, and process control systems.

Dr. Sabha Raj Arya:

Dr. Sabha Raj Arya received Bachelor of Engineering degree in Electrical Engineering from Government Engineering College Jabalpur, in 2002, Master of Technology in Power Electronics from Motilal National Institute of Technology, Allahabad, in 2004 and Ph.D. degree in Electrical Engineering from Indian Institute of Technology (I.I.T) Delhi, New Delhi, India, in 2014. He is joined as Assistant Professor, Department of Electrical Engineering, Sardar Vallabhbhai National Institute of Technology, Surat. January 2019, he is promoted as Associate Professor in same institute. His fields of interest include Power electronics, power quality, design of power filters and distributed power generation.

He received Two National Awards namely INAE Young Engineer Award from Indian National Academy of Engineering, POSOCO Power System Award from Power Grid Corporation of India in the year of 2014 for his research work. He is also received Amit Garg Memorial Research Award-2014 from I.I.T Delhi from the high impact publication in a quality journal during the session 2013-2014. At present, he has published more than *hundred* research paper in internal national Journals and conferences in field of electrical power quality.

He is also serving as an Associate Editor for the *IET (U.K.) Renewable Power Generation.*

Dr. Rajasekhar Reddy:

Dr. Rajasekhar Reddy received the Bachelor's degree in electrical and electronics engineering from the Jawaharlal Nehru Technological University Hyderabad, India, in 2006, and the Ph.D. degree in electrical engineering from the Indian Institute of Technology Delhi, New Delhi, India, in 2014. From Nov. 2013 to Oct. 2014, he was with the department of electrical and computer engineering department, National University of Singapore (NUS), Singapore, where he worked as post-doctoral research fellow. From Dec. 2014 to Nov. 2019, he was with the department of electrical and computer engineering department, Khalifa University of Science and Technology, Abu Dhabi, where he worked as post-doctoral research associate. Currently, he is with the Electrical Engineering Department, SVNIT, Surat, working as an assistant professor.

His research work has been published in various high quality academic journals and international conference proceedings. His research interests include voltage and frequency control of self-excited induction generators, power electronics applications in renewable energy systems, distributed power generation, power quality, and control of custom power devices and wireless power charging.

Dr. Papia Ray:

Dr. Papia Ray is an Associate Professor at the Department of Electrical Engineering, Veer Surendra Sai University of Technology, Odisha, India. She completed her Ph.D. in the area of power system engineering at the Indian Institute of Technology, Delhi. Her current research area includes Power system protection, Power quality, Wide area measurement systems and application of soft computing techniques in power system protection. She is a senior member of IEEE, Life Member of Indian Society for Technical Education and Member of Institution of Engineer's India. She has published numerous papers in various international journals and conferences. She has produced one Ph.D. Recently She has written a book titled "Microgrid: Operation, Control, Monitoring and Protection", Springer Publisher. She is the recipient of Young Scientist Award from Department of Science and Technology, New Delhi in the year 2015.

Dr. S.N.Sharma:

B.E. Electrical Engineering, Govt. Engineering College Rewa, M.P., India, M.Tech. Control Systems (Electrical Engineering), Institute of Technology, Banaras Hindu University (Presently IIT (BHU)), UP, India. Ph.D. Volterra and stochastic system theory, the University of Delhi, Delhi, India.

From 2000 to 2009 he worked with NSIT New Delhi (An Autonomous Institution of Govt. of NCT of Delhi) and From 2009 to till date he is with SVNIT Surat.

Visiting academic appointment under the INSA

(1) Department of Systems and Control, Jozef Stefan Institute, Republic of Slovenia,

May 20-June 20, 2018.

Known for and selected contributions:

(1) A stochastic system, 'The Sharma-Parthasarathy stochastic two-body problem'.
(2) Higher-order filtering: We have developed higher-order Kushner filter and the result was published in International Journal of Control and Automatica.
(3) Introduction of Stratonovich differential into non-linear dynamic circuits:

Current research directions are the following:

(1) Stochastic processes, dynamical systems and non-linear filtering
(2) Multivariable Systems, Relative Normalized Gain Array, IMC Controllers
(3) Volterra systems and IMC Volterra Controllers, specifically extending the notion of IMC controllers for non-linear systems using Carleman embedding

(4) Developing new perspectives in filtering and control

He is Reviewer of Many Renowned Journals

He authored many quality Journals

Book Chapters

Two articles (single Authored), two (double authored)

06 PhD thesis guided and guiding 06 PhD Students

Funding acquired (A) CSIR research Project (B) An MHRD Pedagogy project

Dr. Ujwal Kalla:

Dr. Ujjwal Kumar Kalla
Ph.D. *(in Electrical Engg.)* ***IIT Delhi, M.Tech.*** *Power elect.,Elect. m/c & Drives* ***(IIT Delhi) ,***
Associate Editor of IET RPG, Fellow IETE (India), Fellow IEI (India), Senior Member IEEE
Total Teaching Experience 18 Years

Currently working as Associate Professor, Department of Electrical Engineering, **Maulana Azad National Institute of Technology, Bhopal (India)** An Institute of National Importance, Govt. of India
Former Project Director, (April 2015 to February 2020)
Ceramic Electrical Research Development Center, Bikaner (Rajasthan) India (An Autonomous Organization of Govt. of Rajasthan)
An N.A.B.L., Govt. of India, Accredited organization **& Former Head,** Department of Electrical Engineering, Govt. Engineering College Bikaner, (Rajasthan), India

National Awards received during M.Tech. & Ph.D. for excellence in academics:

1. National Award For Best M. Tech. Thesis of I.S.T.E. in Electrical and Electronics Engineering 2010". **(All India First Prize)** (cash award Rupees 10,000 and a certificate of Appreciation)
2. POSOCO Power System Award (in Doctoral Category) from FITT, IITD & POSOCO. (cash award Rupees 60,000 and a certificate of Appreciation)
3. GRIDTECH 2015 award of Power Grid and Ministry of Power (**All India First Prize**) in During PhD.

(cash award Rupees 1 Lac and a certificate of Appreciation)

- **Patents Filled:-** 4 patents
- **M.Tech Thesis Guided:** 35 (Awarded), 8 Under Progress
- **Ph.D. Guided :** 1 (submitted) , 4 (In Progress),
- **Google scholar Citations= 547, h - index papers=15, I 10-index papers =16,**

Research Projects:

1. **PI of Research Project** Titled :- "High performance PFC based LED Drivers working under Stringent AC Supply". Granted by C.P.R.I., Bangalore, G.O.I., **Grant Amount Rs 34.76 Lakh**. (completed in June 2019)
2. **PI of Research Project** Titled :- Design and Implementation of single phase Microgrid using renewable energy sources, Under Extra Mural Research Funding, of Central DST, G.O.I., **Grant Amount Rs 62.99 lakhs**. (in progress)

3. **PI of Research Project** Titled:- Design and Development of Electronic Load Controller for voltage and frequency control of Self Excited Induction Generators (SEIG) **Grant Amount 2.40 Lac.**
4. **CO-PI of Research Project** Titled:- Design, Development and Analysis of DC/DC converter Schemes using new types of efficient switching devices and magnetic materials for Improved maximum Power Extraction system from Solar PV Generation Systems , **Grant Amount 2.40 Lac.**

Dr. Surender Reddy:

Dr. Surender Reddy received the Ph.D. degree in electrical engineering from Indian Institute of Technology, New Delhi, India, in 2013. He was a Postdoctoral Researcher at Howard University, Washington, DC, USA, from 2013 to 2014. He is currently working as an Associate Professor in the Department of Railroad and Electrical Engineering, Woosong University, Daejeon, Republic of Korea. He published 100+ international journal papers, and 20+ international conference papers.

His current research interests include power system restructuring issues, ancillary service pricing, real and reactive power pricing, congestion management, and market clearing, including renewable energy sources, demand response, smart grid development with integration of wind and solar photovoltaic energy sources, battery storage and electric vehicles, artificial intelligence applications in power systems, and power system analysis and optimization. He received Distinguished Researcher Award from Woosong University Educational Foundation, Republic of Korea in 2016, and POSOCO Power System Award (PPSA), India in 2013. He is a Member of IEEE andIEEE Power and Energy Society.

Dr. Phaneendra Babu Bobba:

Dr. Phaneendra holds a Ph. D. from Indian Institute of Technology (IIT) Delhi India. He is presently working as a Professor in the Department of EEE at GRIET, Hyderabad, India. Prior to joining GRIET he worked as Assistant Professor in Shiv Nadar University. Dr. Phaneendra has published 35 publications in National and International Journals and Conferences. He is working as lead technical consultant to Asthra Projects and Master Pcb Pvt. Ltd. He is working on consultancy projects worth of 58 lakhs.

Research Interests: Electric Vehicles, Hybrid electric vehicles and Plug-in hybrid electric vehicles. • Hybrid Energy storage systems (Battery and Supercapacitor combination) • Power management systems in Electric vehicles. • Electric Drives, Power Electronics, DSP based control of Drives • Dynamic Wireless charging in supercapacitor based EVs. • Design of Wireless power transfer systems for Mobile and Medical Applications. • V2G and G2V communication / Smart Grid.

Dr. Kalpana Ramesh Babu:

Dr. R Kalpana received B.Tech degree in Electrical and Electronics Engineering from Madras University, Chennai, Tamilnadu, India, in 1998, M.E. degree from Anna University, Chennai, Tamilnadu India, in 2000, and Ph. D degree from Indian Institute of Technology Delhi, India, in 2012. She is currently working as Assistant Professor at Department of Electrical Engineering, National Institute of Technology, Surathkal, India. She is a senior IEEE Member since 2018. She has publications in more than 20 in IEEE Journals and 50 National/International Conferences and filed 3 Indian patents. Her fields of interest are improved power quality converters, Renewable energy systems and Battery management systems.

Dr. Sandeep Madishetti :

Dr. Sandeep Madishetti Received the PhD degree from IIT Delhi, in 2015, the M.Tech. degree in Power Electronics and Electrical Drives from S.V.NIT, Surat, in 2009, and the B.Tech. degree in Electrical and Electronics Engineering from Anurag Engineering College, Kodad, in 2007. After his completion of doctoral studies, he worked for two years at Rolls Royce @ Nanyang Technical University Corporate Lab, Singapore, as a Research Fellow. He is currently working as Research Scientist with Experimental Power Grid Center (EPGC), Singapore since 2017. Earlier EPGC was a Research Institute under A*STAR, Singapore. In September 2019 EPGC merged with Energy Research Institute @ Nanyang Technological University (ERIAN).

His research interests include power electronics, electrical drives, power quality, more electric aircraft, distributed energy generation, renewable energy intermittency, smart grid, wide-bandgap devices, high power density converters, embedded control systems. He received POSOCO Power System Award (PPSA) 2015. His PhD thesis work stood top ten in Doctorial Category.

DATE: 01-06-2020

TIME: 2.20 – 2.30pm

SESSION: I

TITLE: Inaugural

- Principal, Professor K. Ashoka Reddy has given a speech about the role of FDPs to improve technical skills and knowledge.

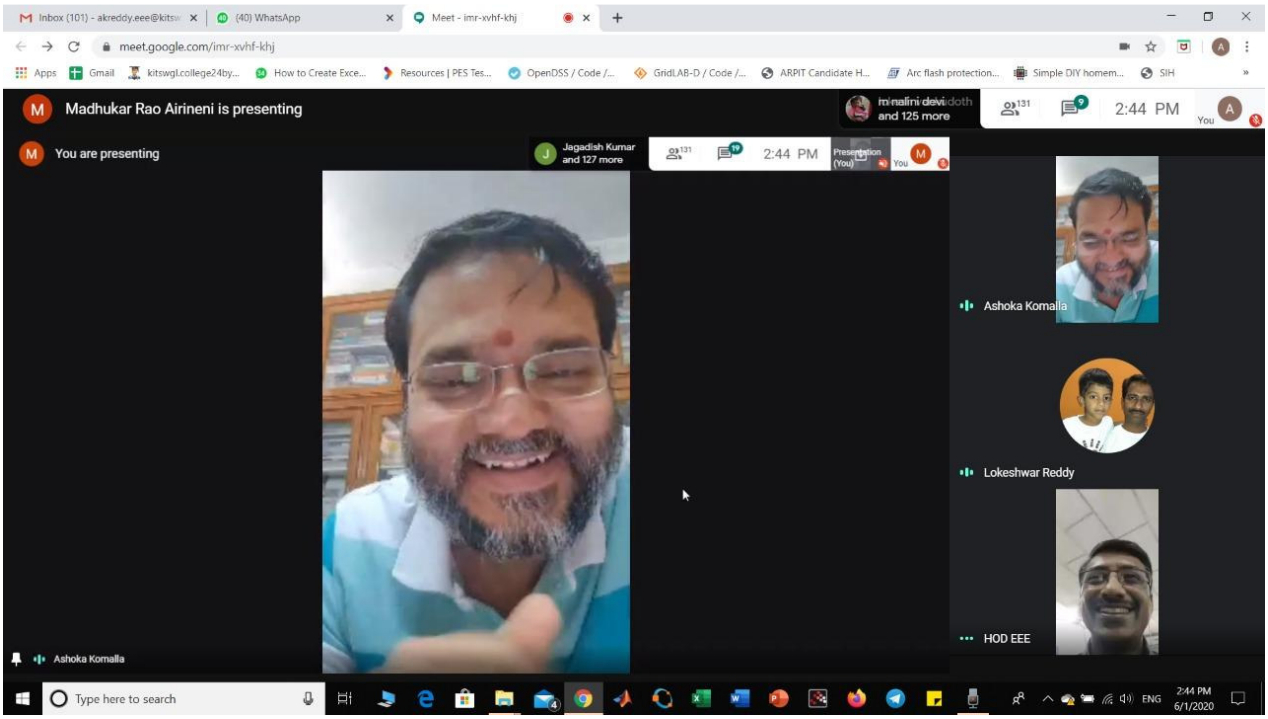


Photo I: Prof. K. Ashoka Reddy, while speaking in the inaugural

DATE: 01-06-2020

TIME: 2.30 – 3.30pm

SESSION: 1

TITLE: EV Retrofitting

RESOURCE PERSON: Dr. Mithun Bhaskar**,** *Head, Model Based Product Engg, Tata Elxsi, Trivandrum*

REPORT: In this session Dr. Mithun Bhaskar delivered the following points in his lecture.

- Vehicle supervisory control, Battery management, mathematical modeling and system modeling.
- Discussed Challenges in retrofitting
- Specifications of Electric vehicle
- Mechanical design and packaging and also vehicle dynamics.
- In Electrical design component selection, compatibility and controllability.
- Safety constraints such as battery cooling, motor cooling and emergency cutoff.
- Importance of Model based System Engineering
- Description of Vehicle to Everything (V2X) concept.

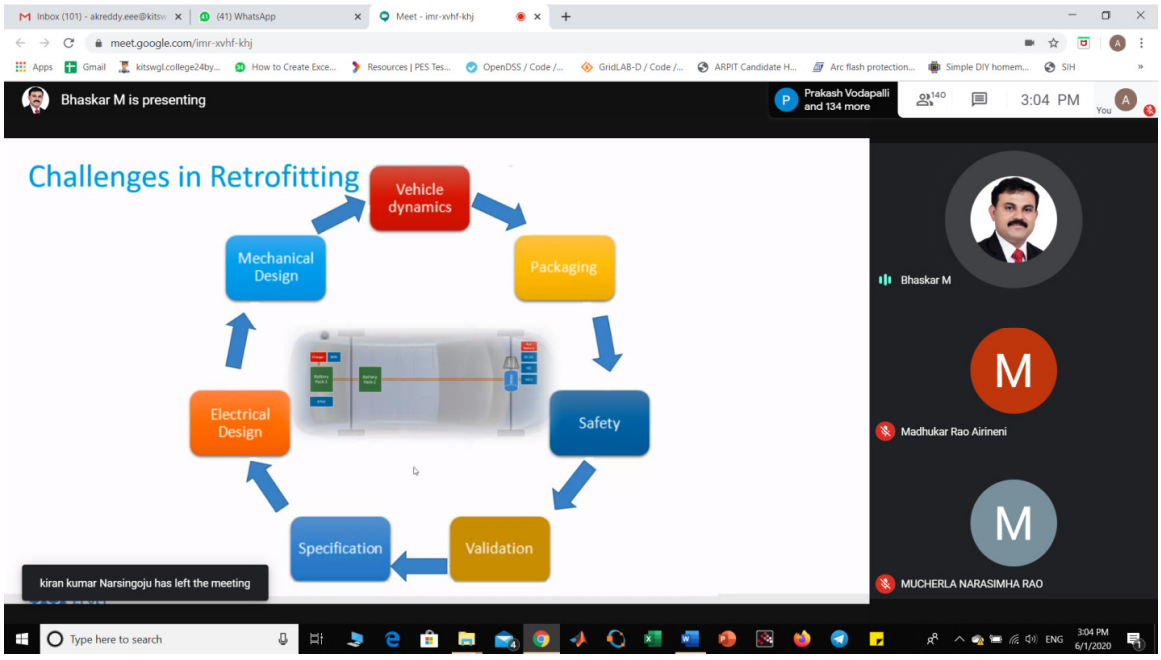
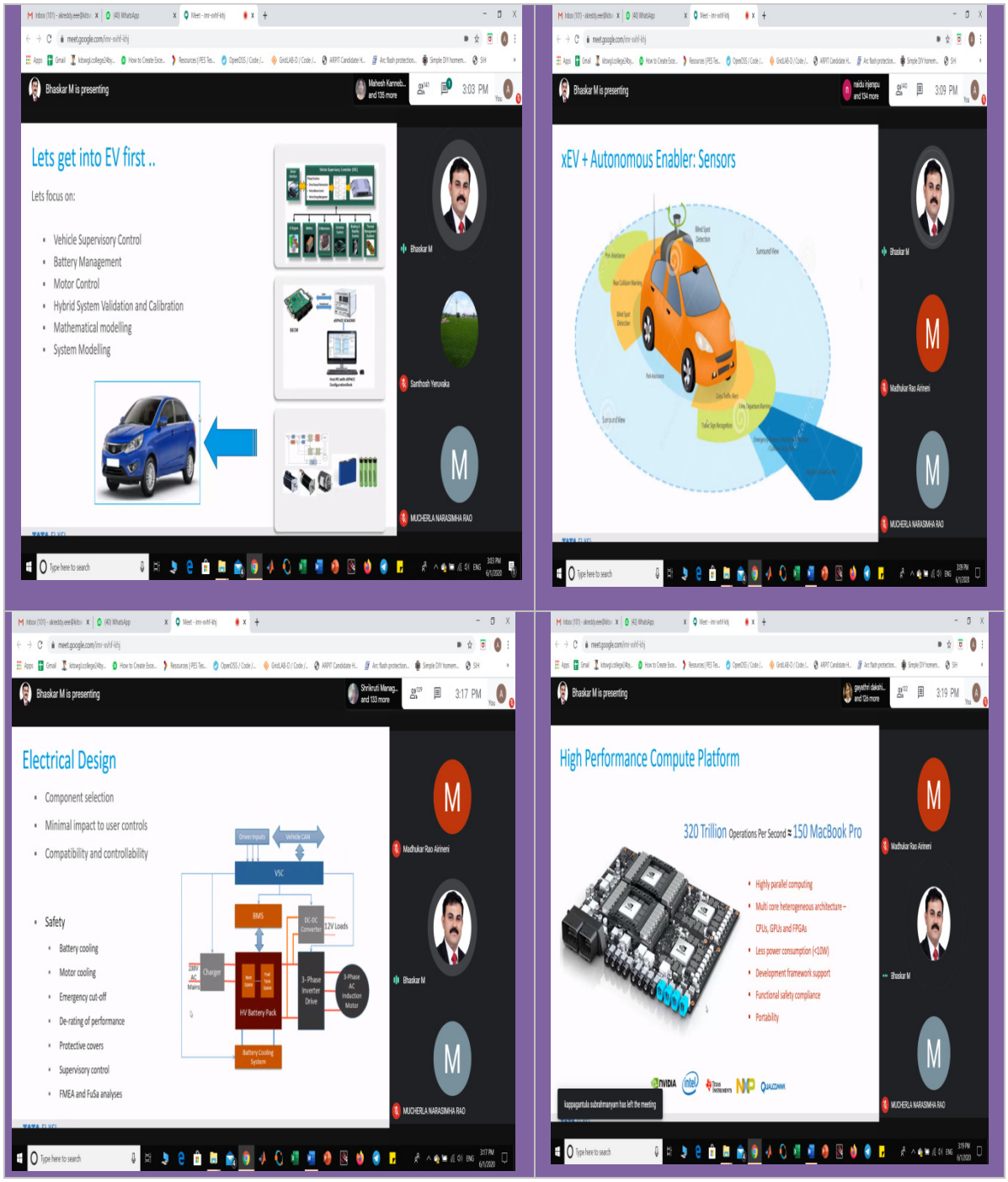


Photo 1: Dr. Mithun Bhaskar, while delivering the Lecture



Dr. Mithun Bhaskar session screen shots

DATE: 01-06-2020
TIME: 3.30 – 4.30pm

SESSION: 2

TITLE: Recognition of Power Quality Disturbances

RESOURCE PERSON: Dr. Raj Kumar Garg, Associate Professor, Sant Longowal Institute of Engineering & Technology, Punjab

REPORT: In this session Dr. Raj Kumar Garg delivered the following points in his lecture.

- Definition of power quality and the significance of power quality
- Discussion on various power quality disturbances
- Classification of power quality disturbances
- What is the necessity of detecting power quality disturbances?
- Discussed power quality monitoring phenomena.
- Detailed discussion on stock well transformation.
- Purpose of S transform to analyze the sag, swell and harmonic disturbances.
- Flow chart for PQ disturbances classification.

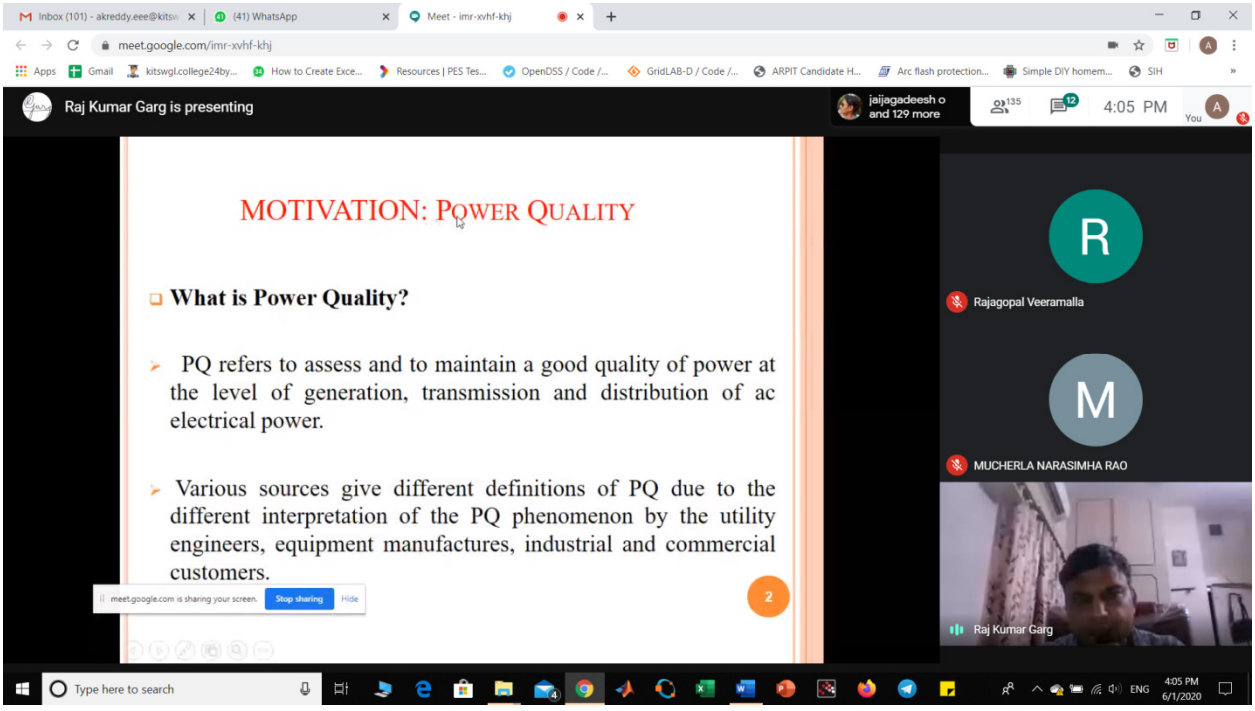
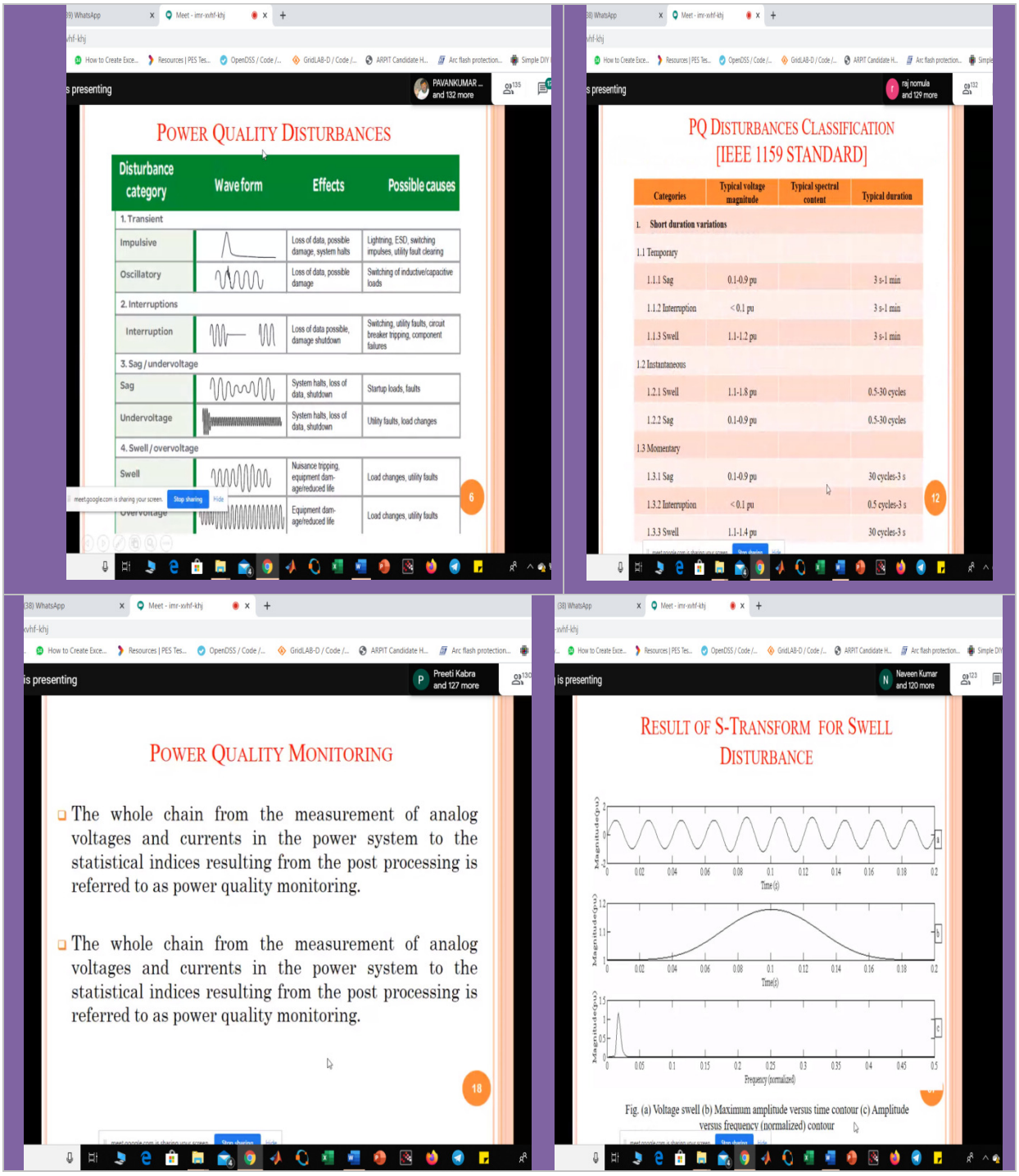


Photo 2: Dr. Raj Kumar Garg, while delivering the Lecture



Dr. Raj Kumar Garg session screen shots

DATE: 02-06-2020

TIME: 2.30 – 3.30pm

SESSION: 3

TITLE: Dynamic Voltage Restorer, Distribution Static Compensator with Battery Charging

RESOURCE PERSON: Dr. Sabha Raj Arya, Associate Professor, SVNIT Surat

REPORT: In this session Dr. Sabha Raj Arya delivered the following points in his lecture.

- Description of three phase three wire and three phase four wire DSTATCOM
- How to select DC bus capacitor and voltage
- Explanation of designing ripple filter
- Adaptive neural network based control algorithm in three phase four wire system.
- Hard ware implementation of DSTATCOM has been demonstrated.
- Different topologies and methods of operation of DVR have been discussed.
- Simulation results of DVR with different PLLs have been analyzed.
- Experimental setup of DVR with three phase VSC based topology has been demonstrated.

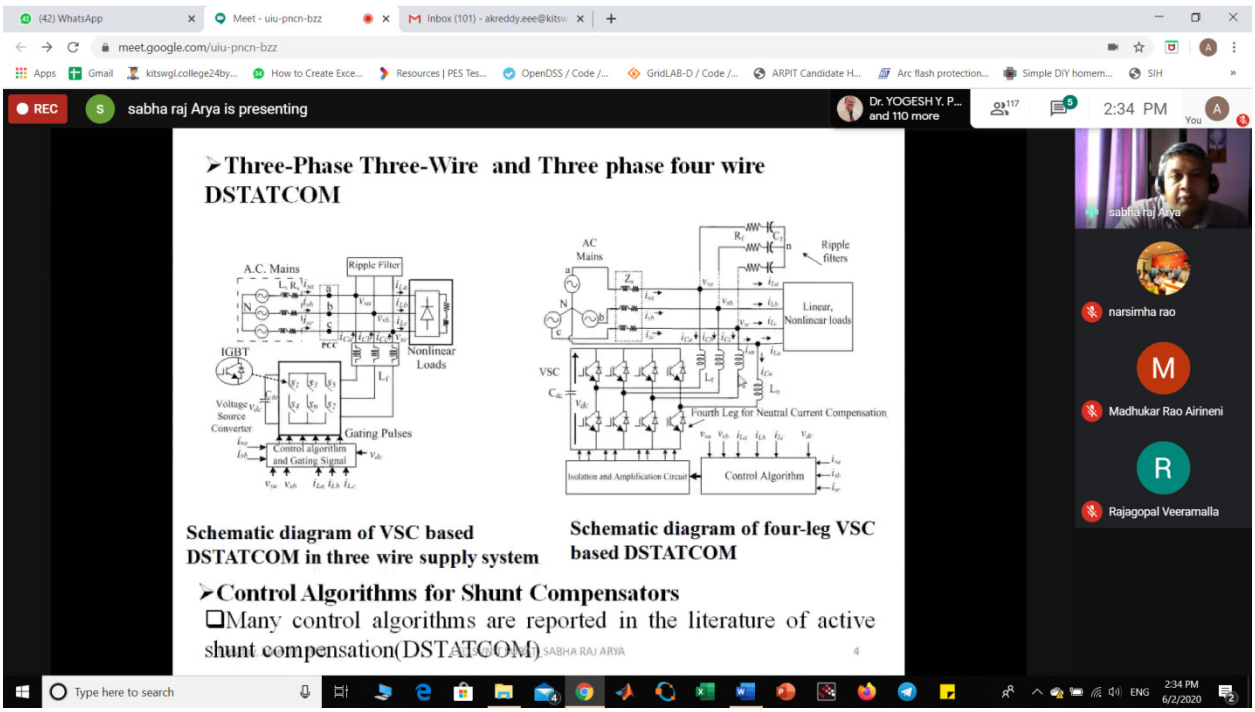
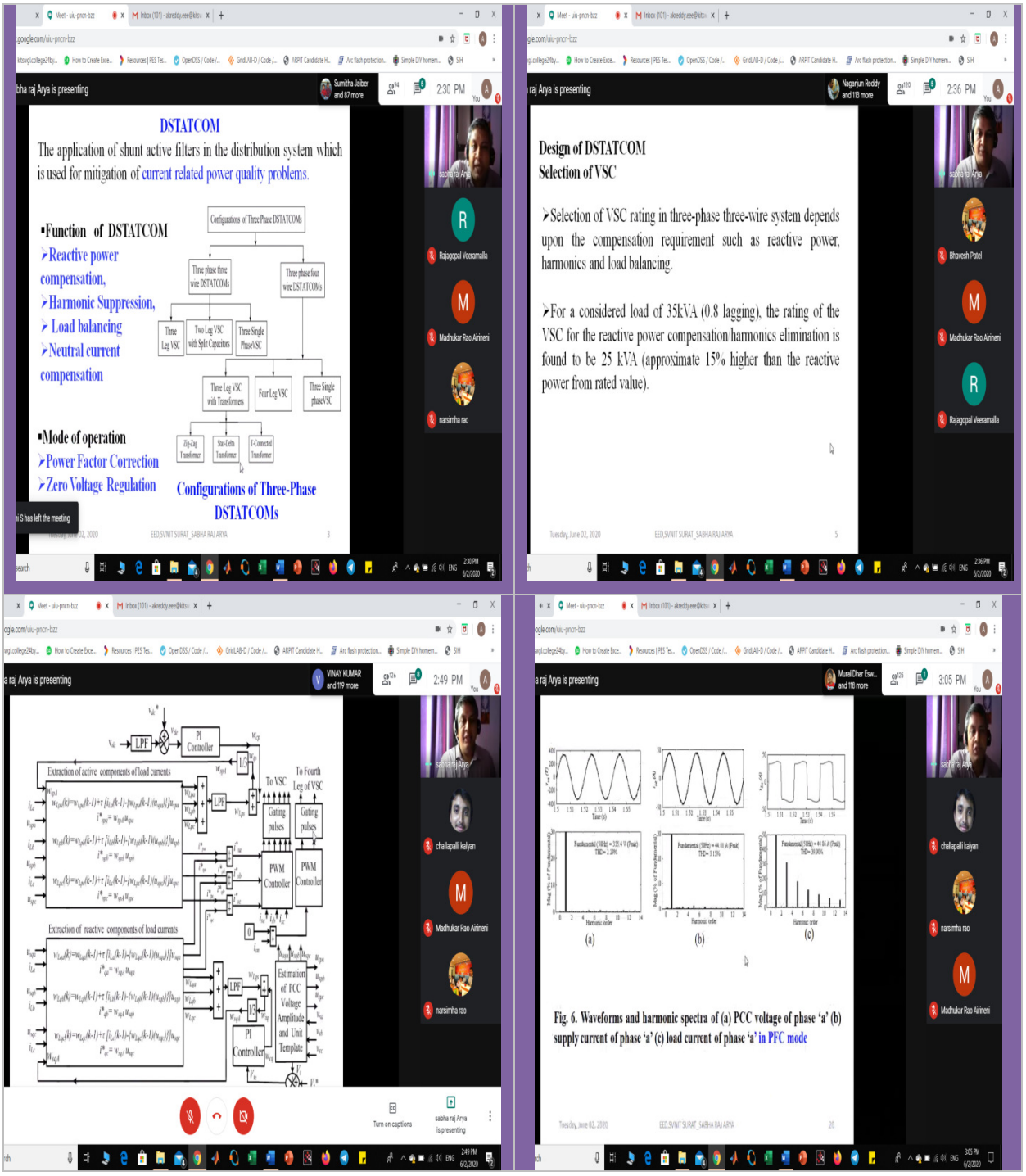


Photo 3: Dr. Sabha Raj Arya, while delivering the Lecture



Dr. Sabha Raj Arya session screen shots

DATE: 02-06-2020
TIME: 3.30 – 4.30pm

SESSION: 4

TITLE: Control and Synchronization of Grid Connected Multi-functional Distributed Generation System

RESOURCE PERSON: Dr. Rajasekhar Reddy, Assistant Professor, SVNIT Surat

REPORT: In this session Dr. Rajasekhar Reddy delivered the following points in his lecture.

- DG system with shunt and series compensation capabilities.
- Schematic diagram of single phase DG has been explained.
- Multiple ANC based filters structure has been discussed.
- Concept of compensating currents and estimation of compensating forces has been discussed.
- Hard ware implementation of DG inverter system has been demonstrated.
- Concept of multiple DG system s has been explained with reference to the schematic diagram.
- Discussion on multiple DG inverters with Ancillary services.
- Overall control diagram of single phase SPV- UAPF system has been discussed.

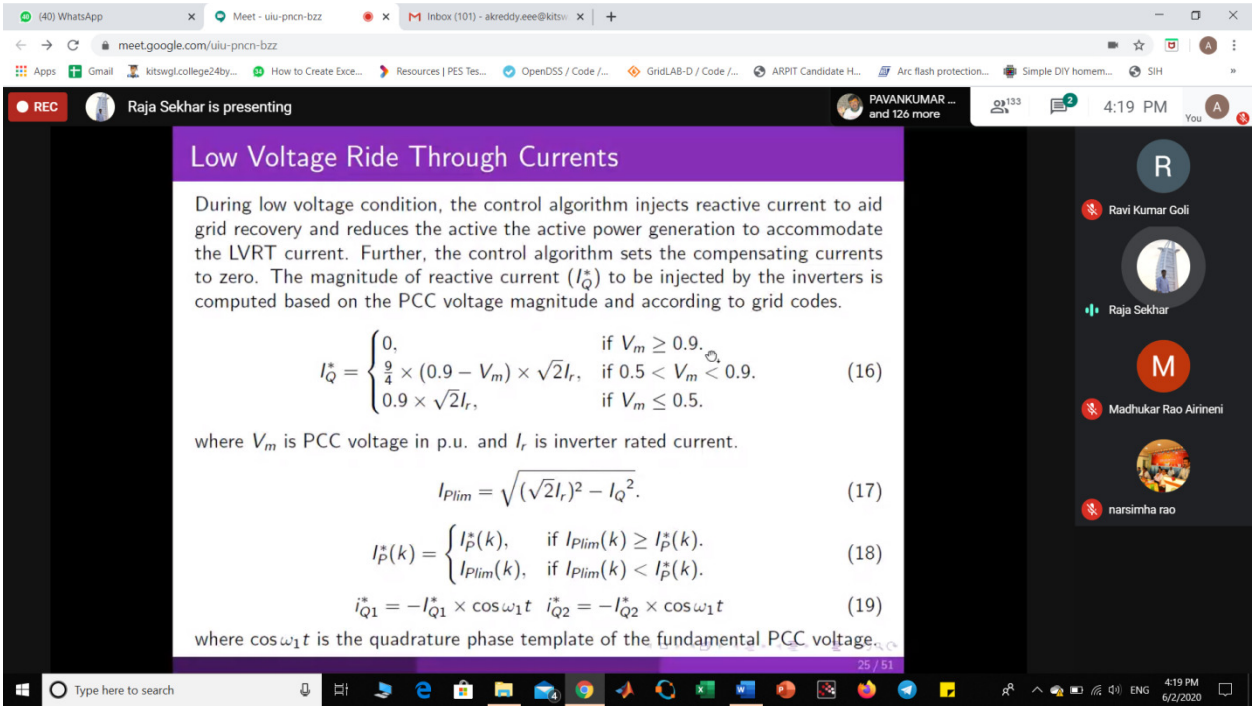
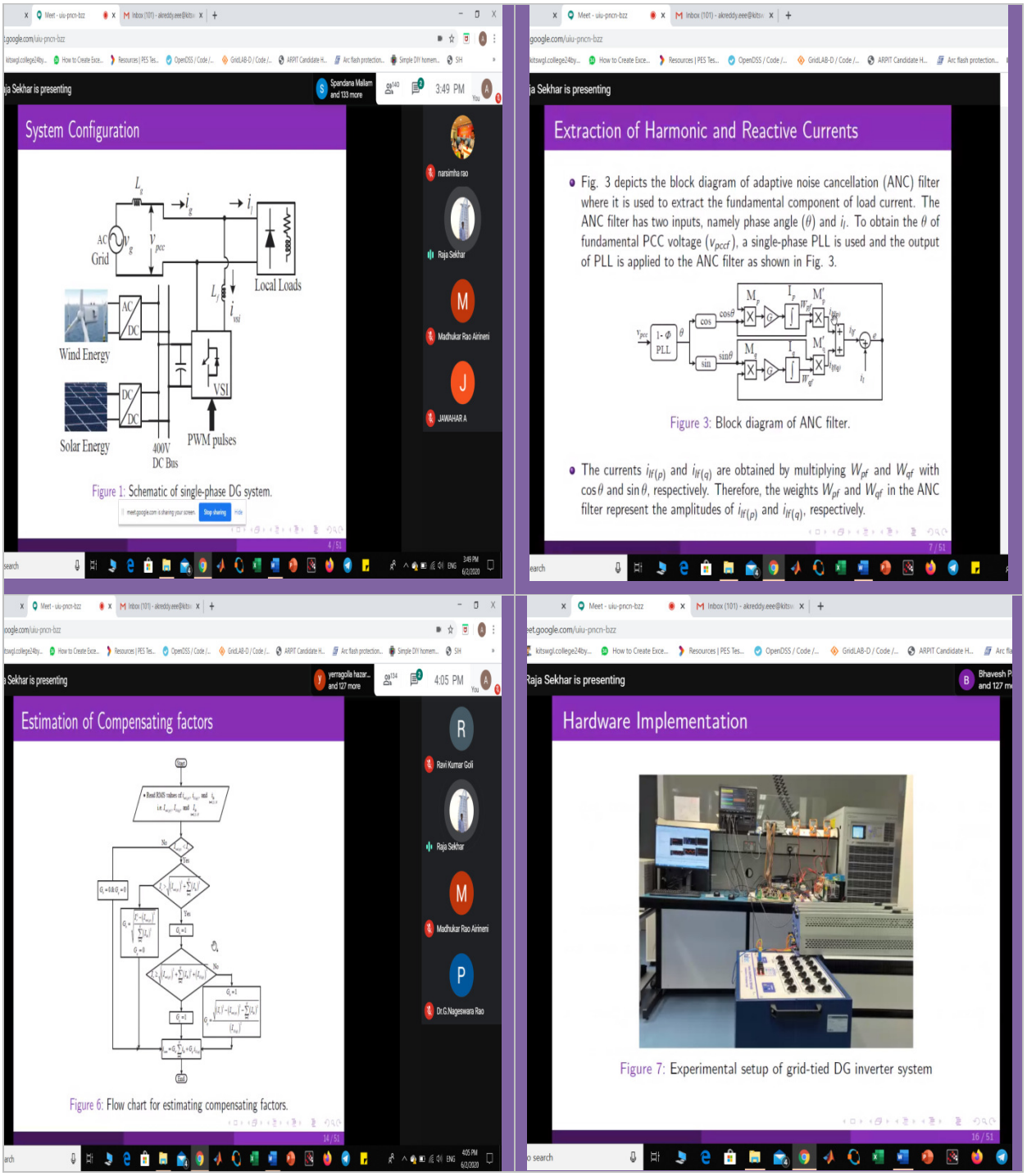


Photo 4: Dr. Rajasekhar Reddy, while delivering the Lecture



Dr. Rajasekhar Reddy session screen shots

DATE: 03-06-2020
TIME: 2.30 – 3.30pm

SESSION: 5

TITLE: Signal processing application for fault location in a transmission and distribution network

RESOURCE PERSON: Dr. Papia Ray, Associate Professor, Veer Surendra Sai University of Technology, Odisha

REPORT: In this session Dr. Papia Ray delivered the following points in his lecture.

- Concept of Impedance measurement based method and travelling wave phenomenon base method.
- Usage of AI based methods for fault classification and location.
- Fault location identification on transmission and distribution line.
- Schematic diagram of entire protection scheme for fault classification and identification.
- Fault analysis procedure with Wavelet transforms has been discussed.
- Concept of Forward feature selection method has been discussed.
- Fundamentals of Genetic Algorithm (GA) and its usage for feature selection has been discussed.
- Fault location in a series compensated transmission line has been discussed.

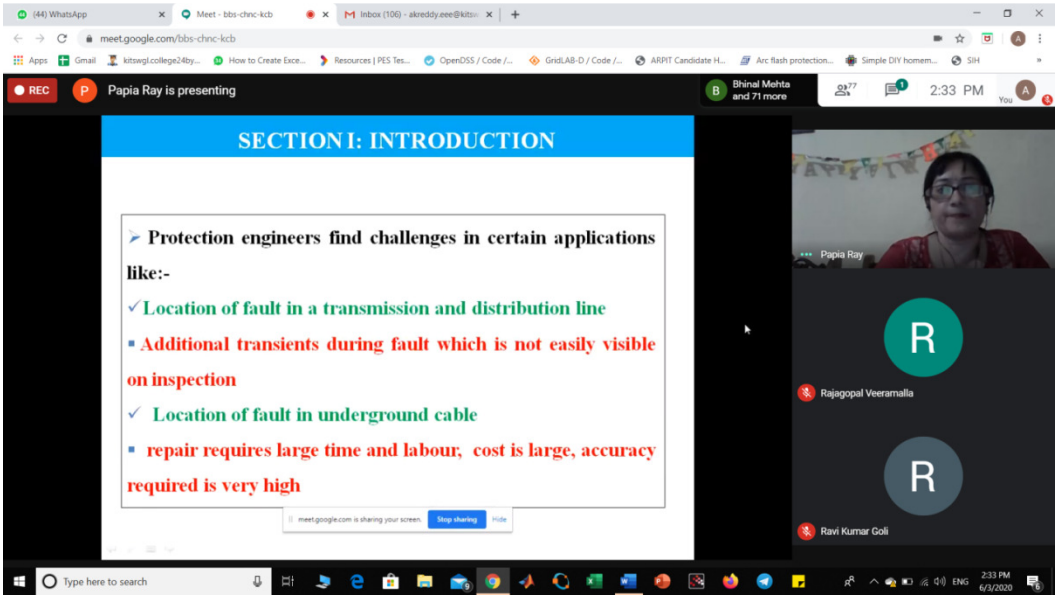
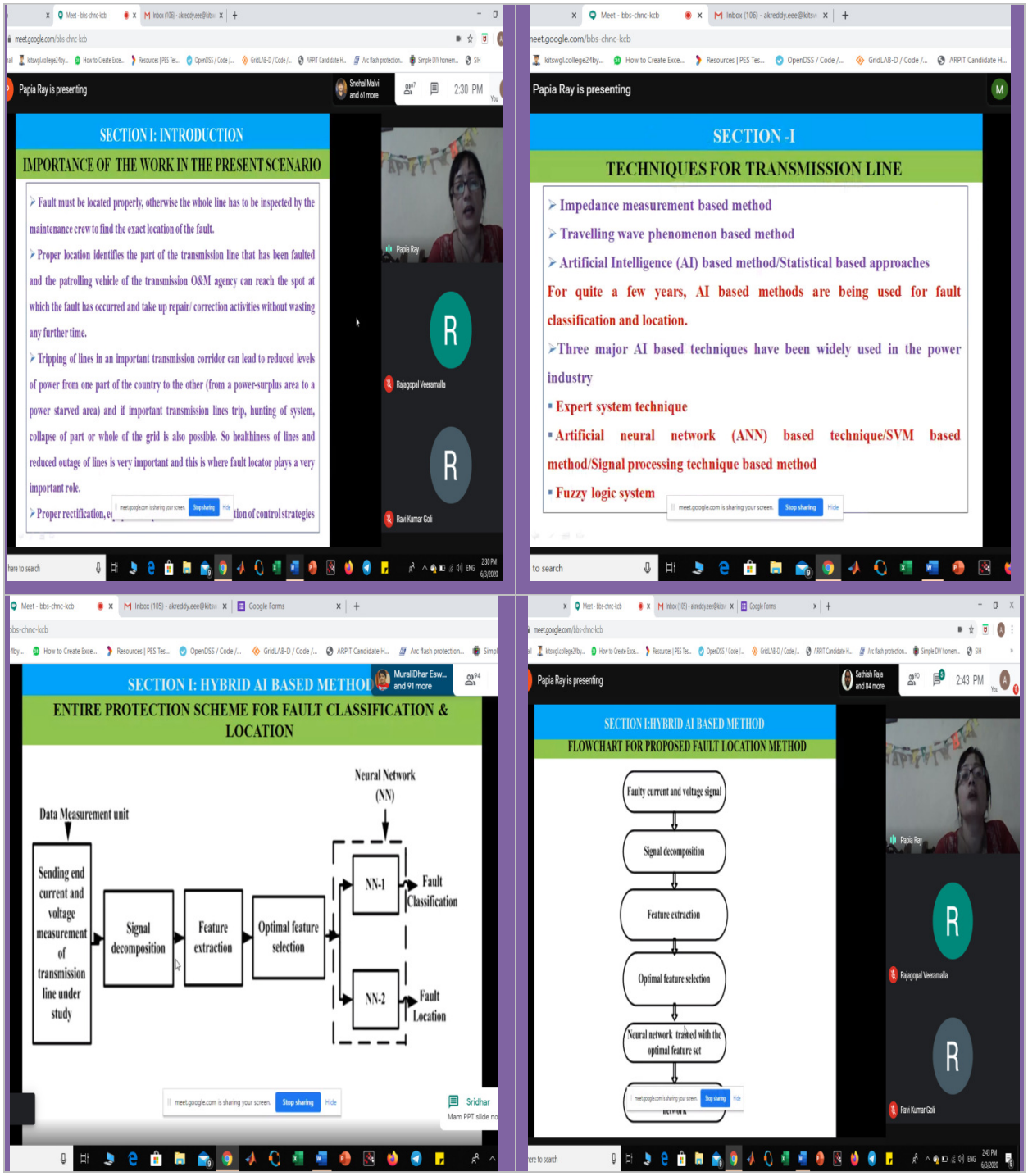


Photo 5: Dr. Papia Ray, while delivering the Lecture



Dr. Papia Ray session screen shots

DATE: 03-06-2020

TIME: 3.30 – 4.30pm

SESSION: 6

TITLE: Some Concepts in Advanced Control Systems

RESOURCE PERSON: Dr. S.N.Sharma, Professor, SVNIT Surat , Gujarat

REPORT: In this session Dr. S.N.Sharma delivered the following points in his lecture.

- First order problem description based on the differential equation.
- First problem in the Hamiltonian Jacobi Bellman equation.
- The constraints of State, Control and the performance measure are achieved using the bounds or inequalities.
- Four problems in the Hamiltonian Jacobi Bellman equation.
- The first step in using Hamiltonian Jacobi Bellman equation is to determine the admissible control.
- The control signal inequality implies the state constraint as well as performance measure inequality.
- Concept of Energy inequality has been discussed.

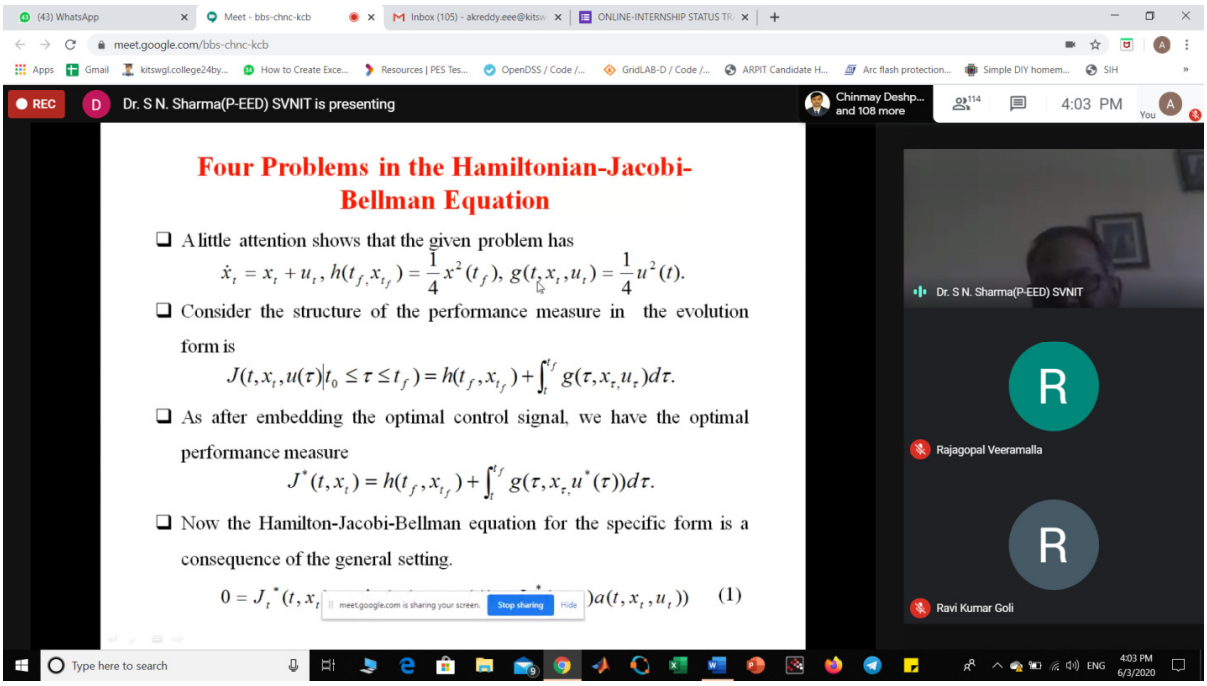
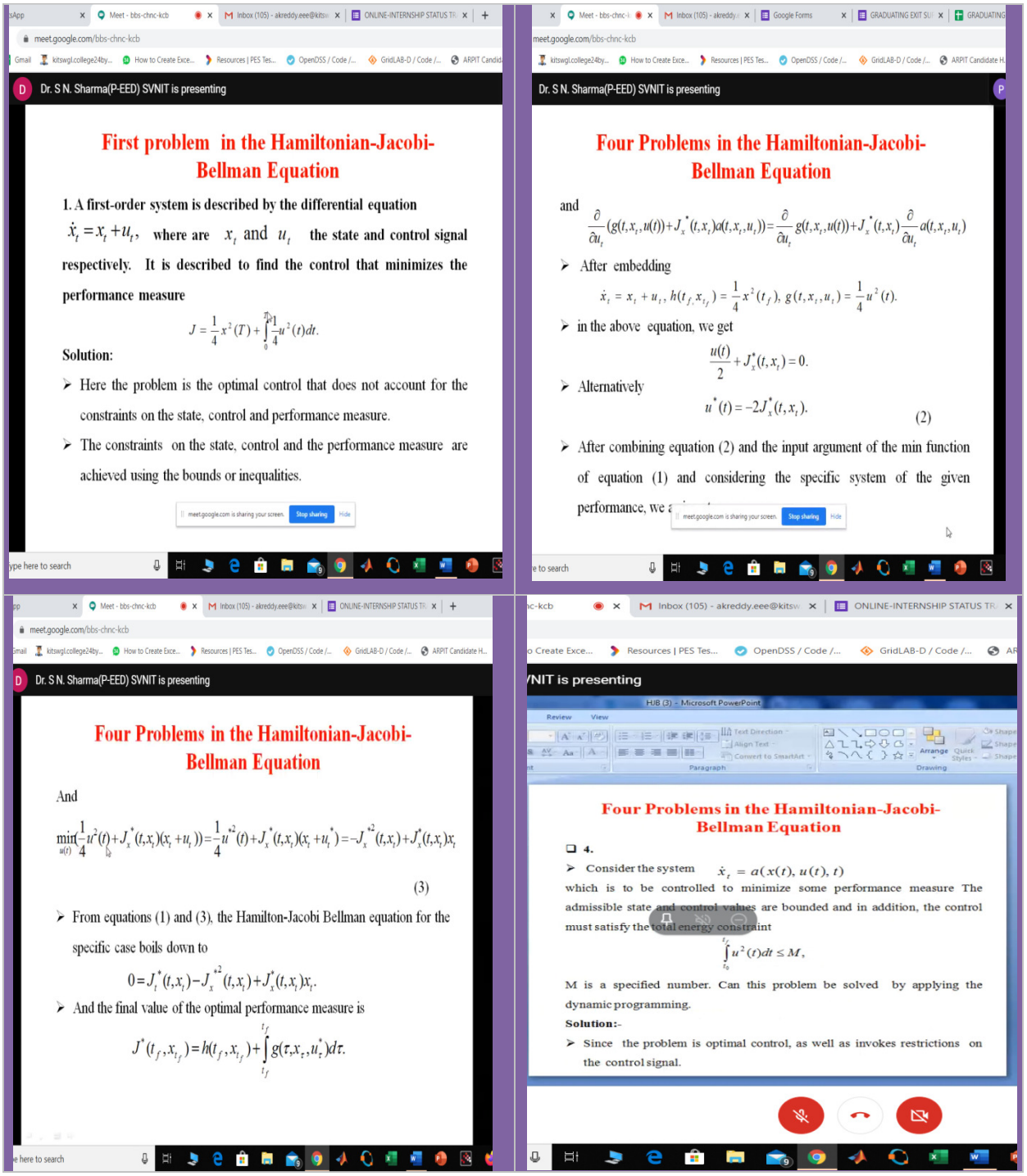


Photo 6: Dr. S.N.Sharma, while delivering the Lecture



Dr. S.N. Sharma session screen shots

DATE: 04-06-2020

TIME: 2.30 – 3.30pm

SESSION: 7

TITLE: Design and Implementation of 1-phase Micro Grid using Wind, Solar and Small Hydro

RESOURCE PERSON: Dr. Ujwal Kalla, Associate Professor, MANIT Bhopal

REPORT: In this session Dr. Ujwal Kalla delivered the following points in his lecture.

- Fundamental concepts of Microgrid discussed.
- Hard ware implementation of developed prototype has been explained.
- Concept of non linear load consisting of a bridge rectifier, resistive load bank and inductive load bank has been explained.
- Circuit diagram description of current circuit board and voltage sensor board has been discussed.
- Block diagram of Adaptive Sliding Mode Control (ASMC) based algorithm of VSC-BESS Microgrid system description.
- Dynamic performance of the SEIG output voltage, output current, PV array output current and battery current.
- Explained how SEIG based stand alone Microgrid integrates renewable energy sources.

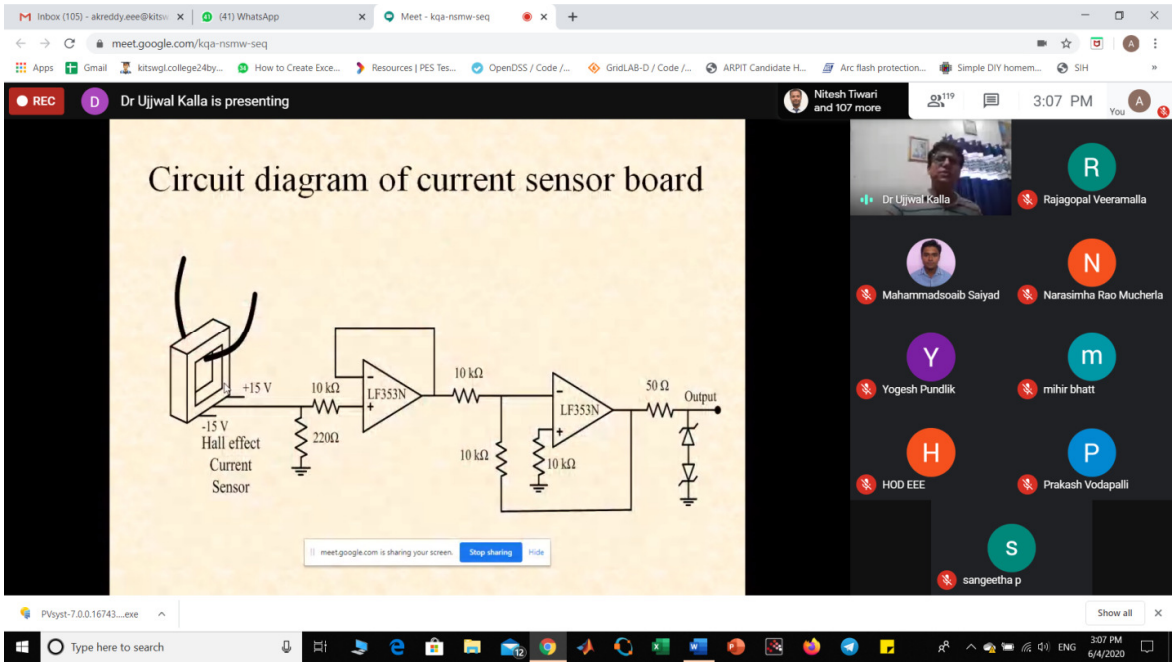
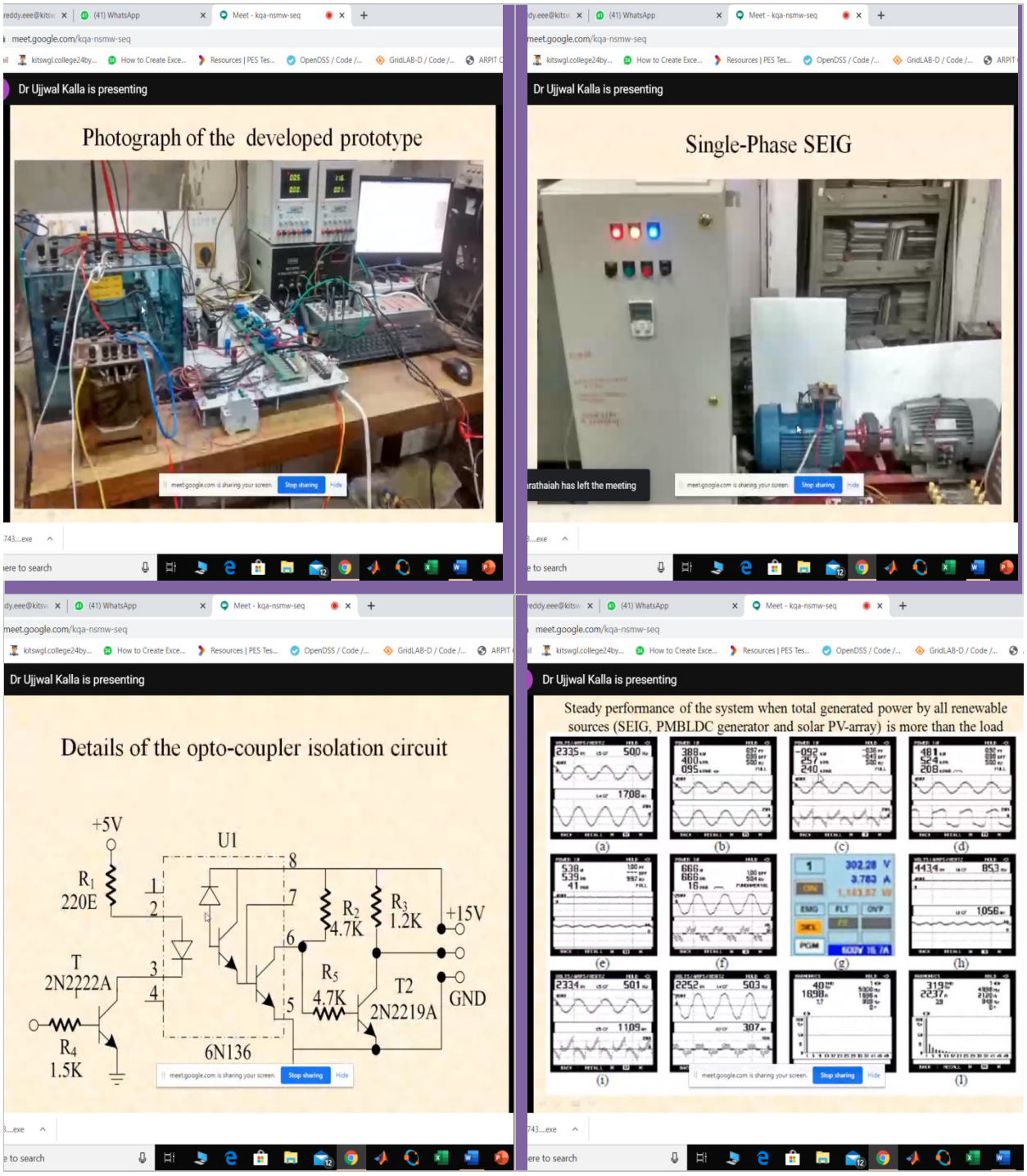


Photo 7: Dr. Ujwal Kalla, while delivering the Lecture



Dr. Ujwal Kalla session screenshots

DATE: 04-06-2020
TIME: 3.30 – 4.30pm

SESSION: 8

TITLE: Power System Optimization including Renewable Energy Sources

RESOURCE PERSON: Dr. Surender Reddy, Associate Professor, Woosong University, South Korea

REPORT: In this session Dr. Surender Reddy delivered the following points in his lecture.

- Fundamental concepts of optimal power flow have been discussed.
- The impact of wind power uncertainty in the OPF problem has been explained.
- Energy & Spinning reserves cost minimization as one of the objectives.
- System risk level minimization as another objective.
- Probability density function and load forecast uncertainty model.
- Equality and inequality constraints for optimization problems.
- Concept of total cost minimization with uncertainty in wind generation.
- Case studies on IEEE 30 bus system for considering models are explained.

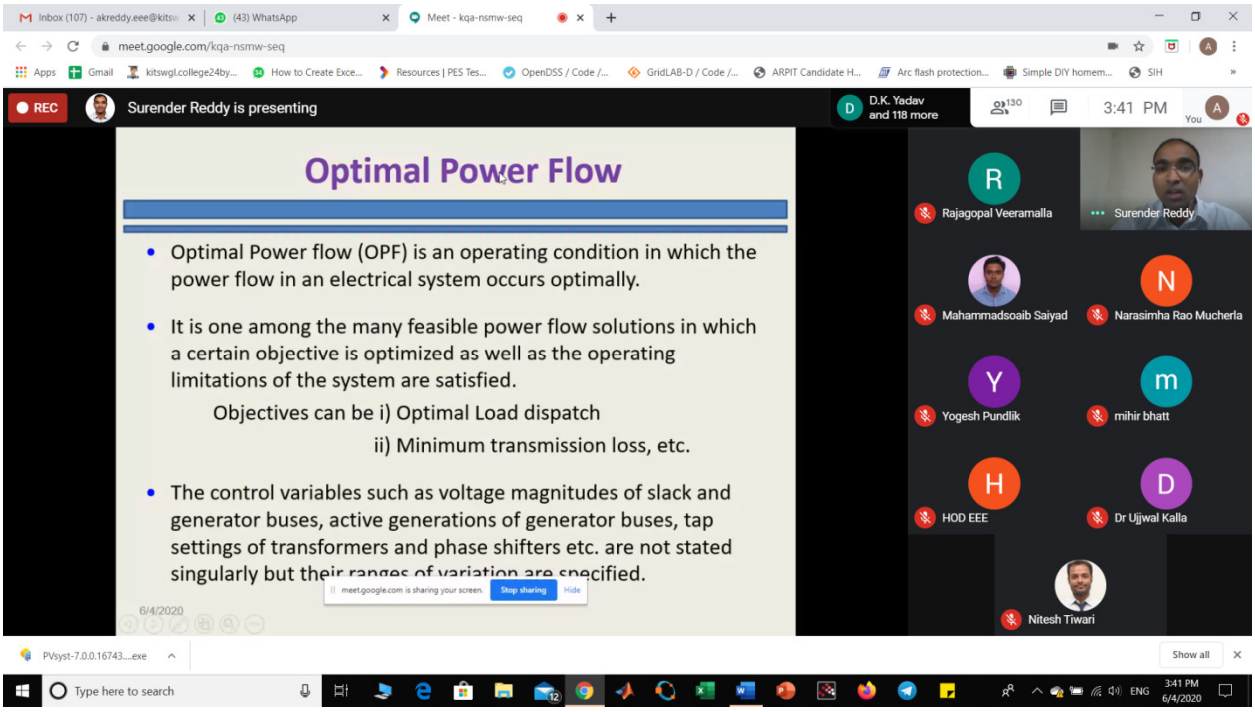
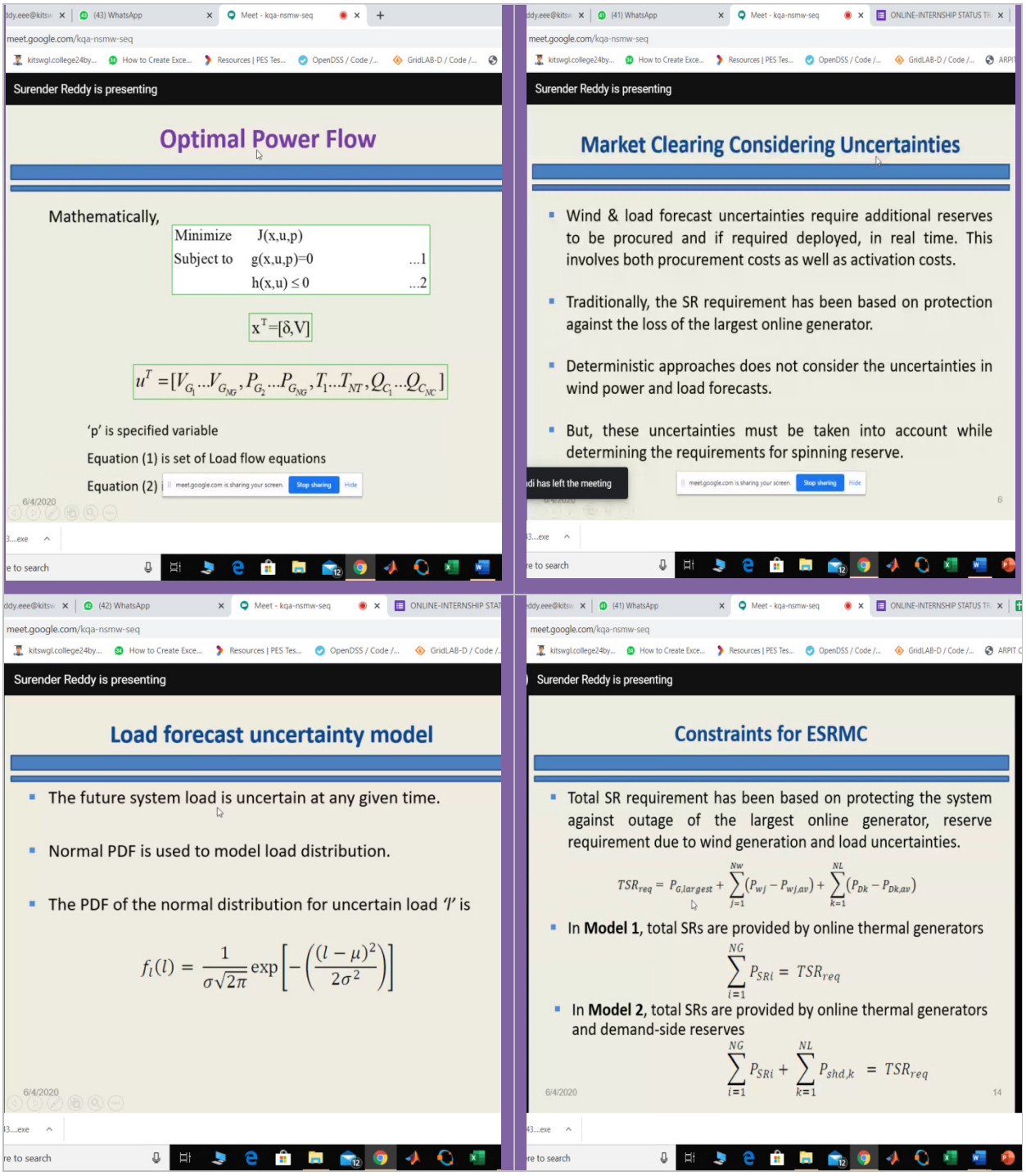


Photo 8: Dr. Surender Reddy, while delivering the Lecture



Dr. Surender Reddy session screen shots

DATE: 05-06-2020
TIME: 11.00 – 12.00pm

SESSION: 9

TITLE: Wireless Charging of EVs

RESOURCE PERSON: Dr. Phaneendra Babu Bobba, Professor, GRIET Hyderabad

REPORT: In this session Dr. Phaneendra Babu Bobba delivered the following points in his lecture.

- Main features of WPS system have been explained.
- Comparison between conductive and inductive charging has shown.
- Concept of static wireless charging of Electric Vehicles (EVs).
- Concept of dynamic wireless charging of Electric Vehicles (EVs).
- Standards and specifications for wired and wireless powered EVs.
- Basic schematics of different WPT techniques.
- Need for compensation topologies and different compensation topologies have been discussed.
- Designing of wireless charging systems has been described.

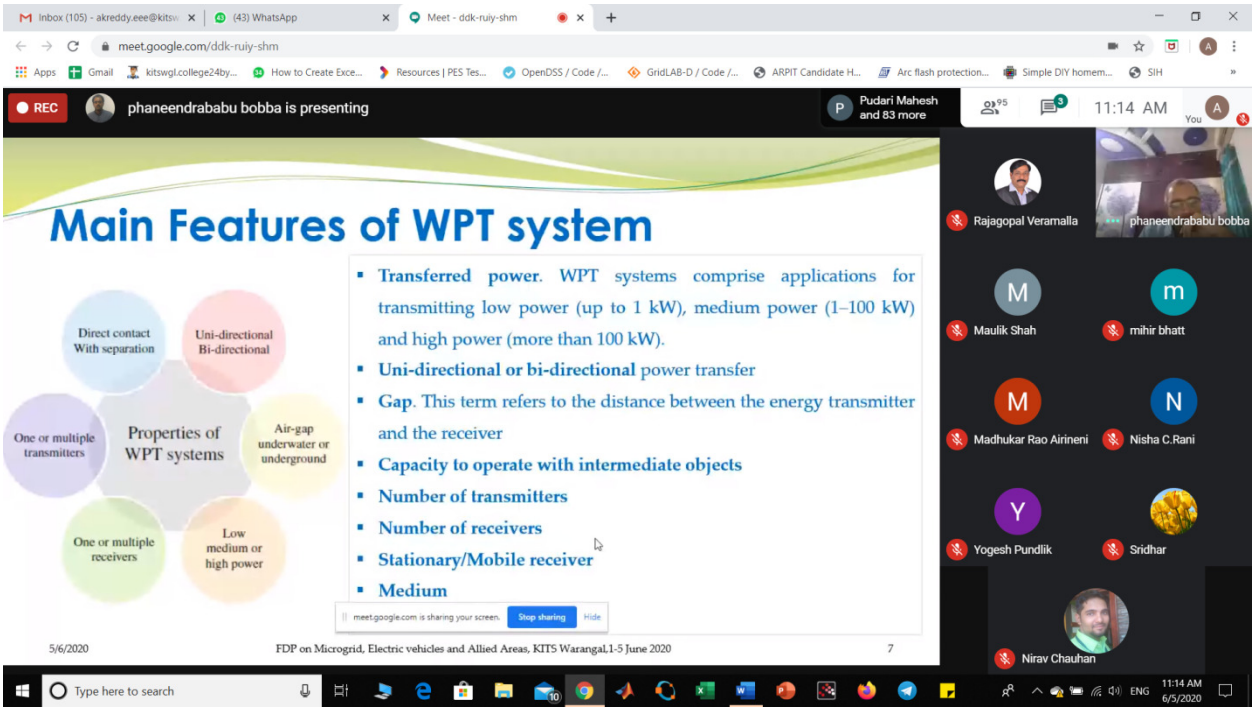
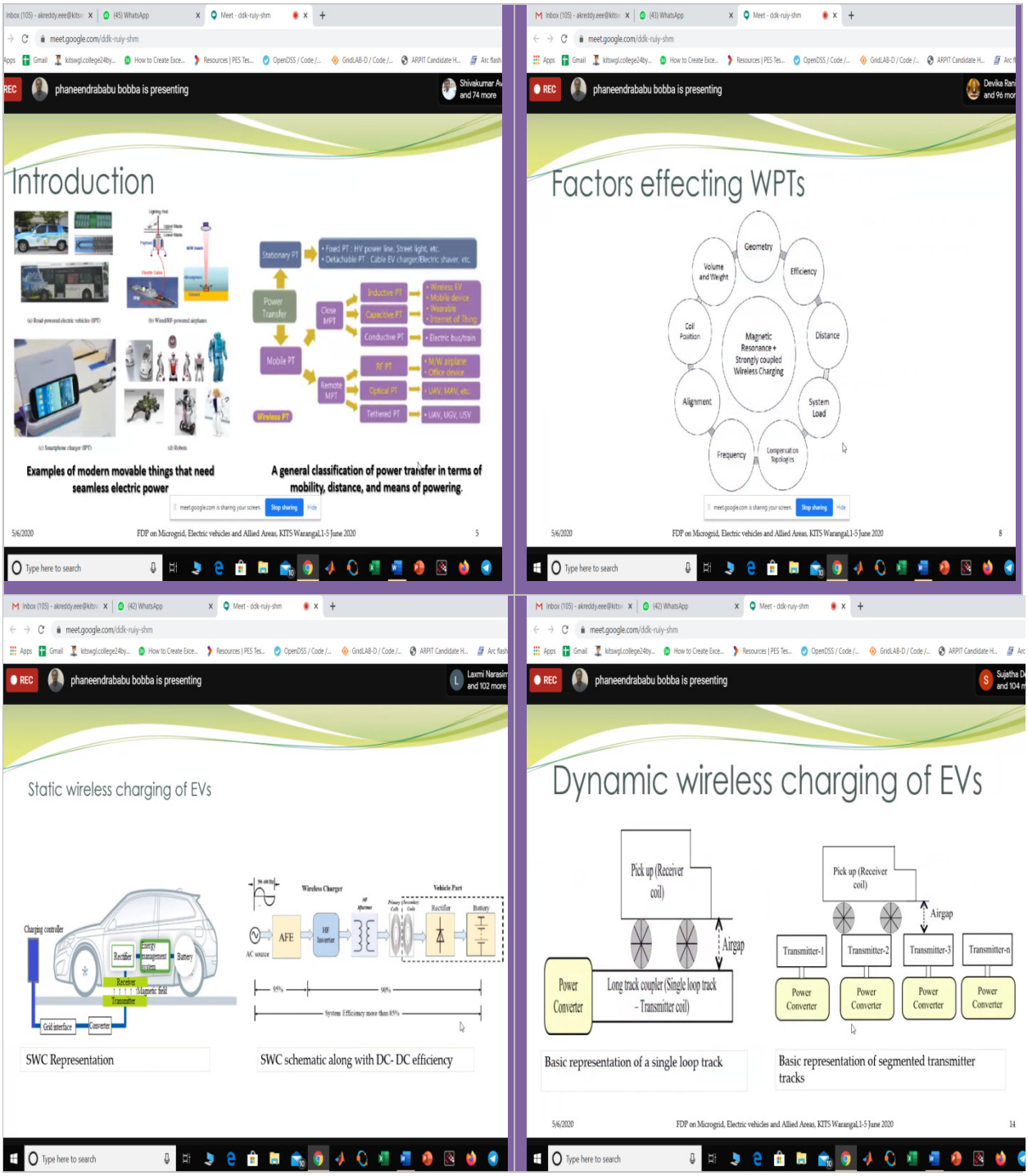


Photo 9: Dr. Phaneendra Babu Bobba, while delivering the Lecture



Dr. Phaneendra Babu session screen shots

DATE: 05-06-2020

TIME: 2.30 – 3.30pm

SESSION: 10

TITLE: Battery Management System for EVs

RESOURCE PERSON: Dr. Kalpana Ramesh Babu, Assistant Professor, NIT Surathkal

REPORT: In this session Dr. Kalpana Ramesh Babu delivered the following points in his lecture.

- Significance and challenges to Lithium batteries have been explained.
- Lithium ion cells configuration in series and parallel combination.
- Charging and discharging of Lithium ion batteries.
- Batteries definition interns of voltage and Capacity.
- Definition and Essence of Battery Management System.
- Concept of battery equivalent circuit modeling.
- Battery State estimation and State Of Charge (SOC)
- DC resistance based SOH estimation technique explanation.

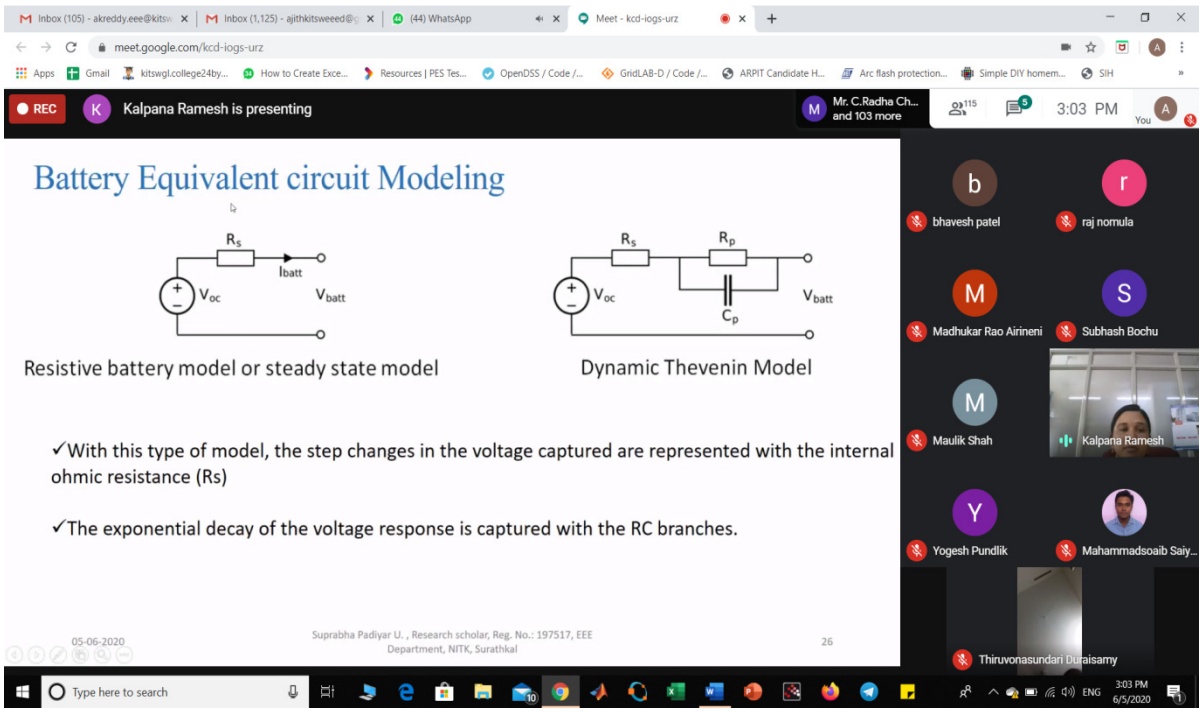
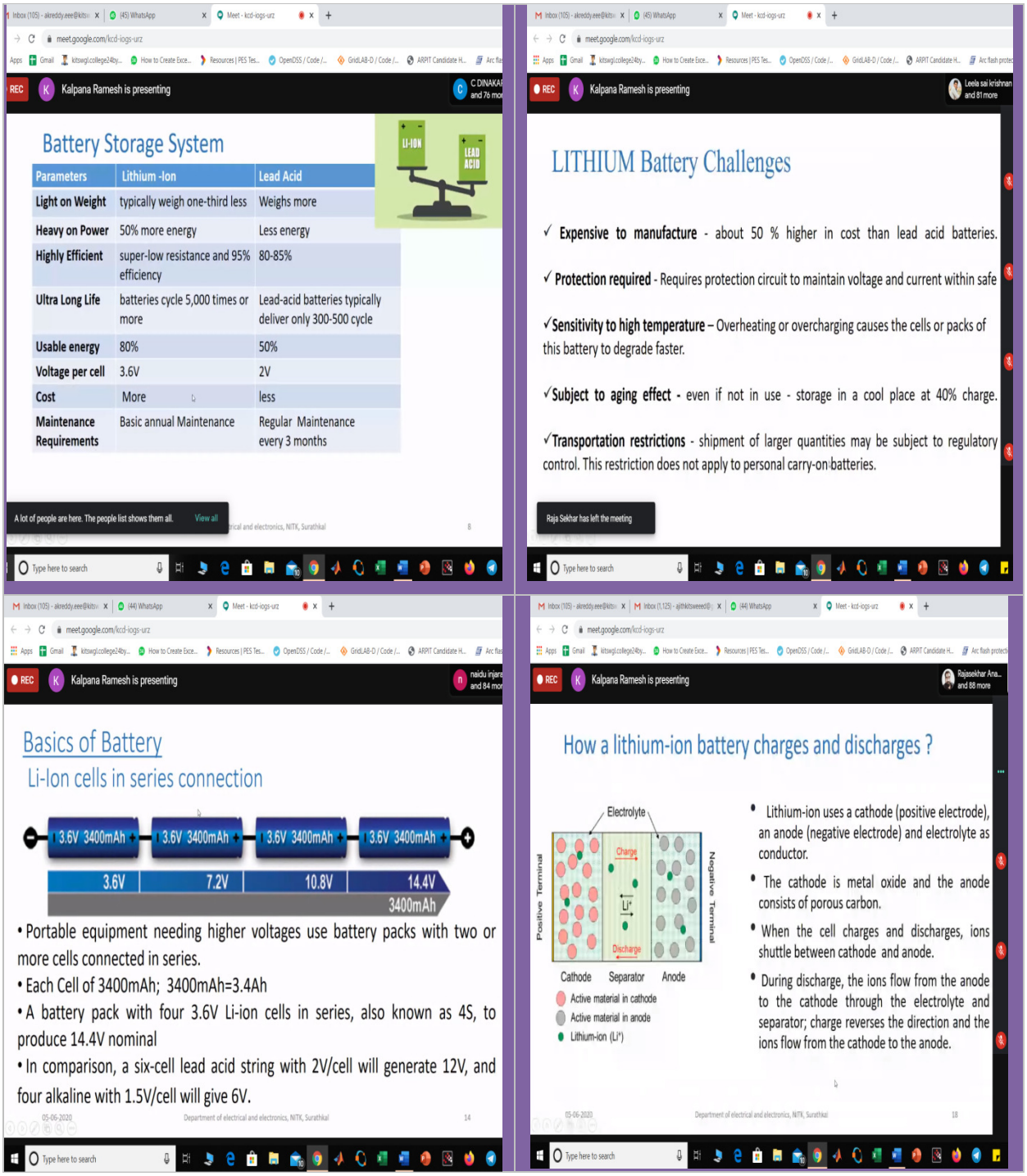


Photo 10: Dr. Kalpana Ramesh Babu, while delivering the Lecture



Dr. Kalpana Ramesh Babu session screen shots

DATE: 05-06-2020
TIME: 3.30 – 4.30

SESSION: 11

TITLE: Advanced Power Electronics Applications in Aerospace, EV and Renewable Energy

RESOURCE PERSON: Dr. Sandeep Madishetti, Research Scientist, EPGC, ERI@NTU, Singapore

REPORT: In this session Dr. Sandeep Madishetti delivered the following points in his lecture.

- EPGC core capabilities explained with the help of a schematic diagram.
- Aircraft electrification market and description of various Aircrafts.
- The concept of electric power in Aircraft and power system architecture in Aircraft.
- Explained various research areas in Aircraft Power system.
- Different types of Electric Vehicles.
- Concept of BEV architecture with schematic diagram.
- SiC and GaN power components for BEV and PHEV.
- Explanation on high power density and high efficient converters.

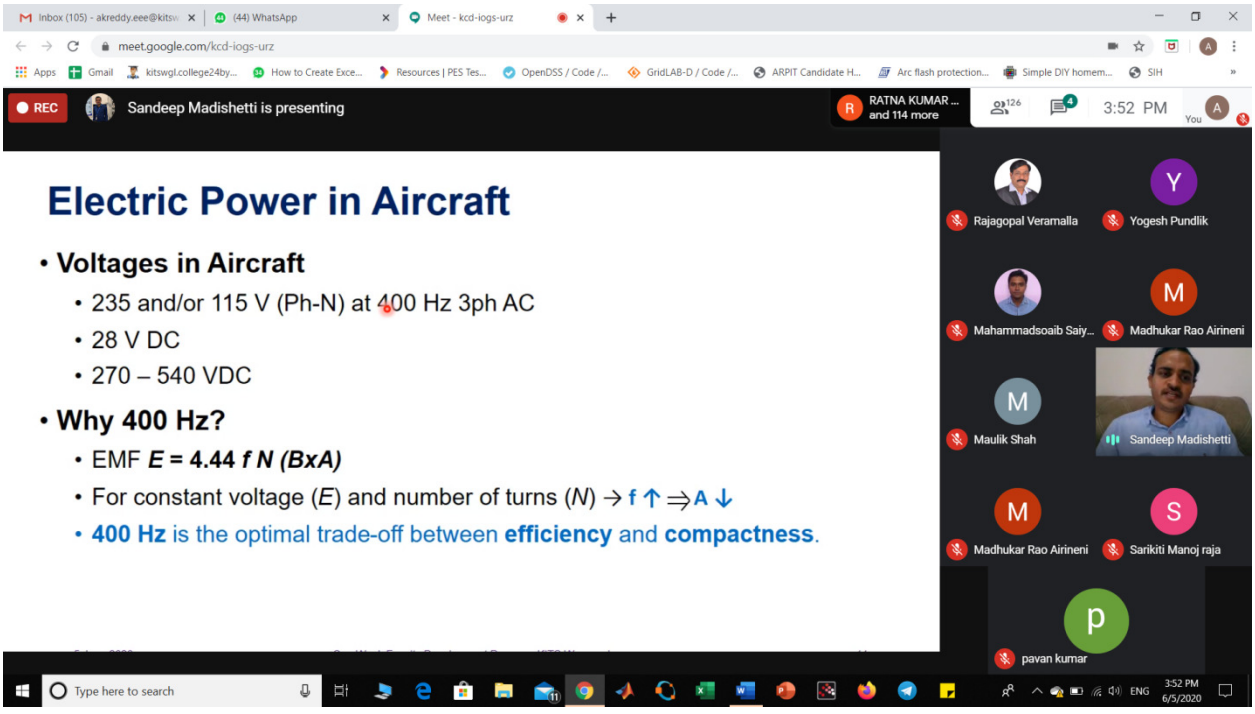
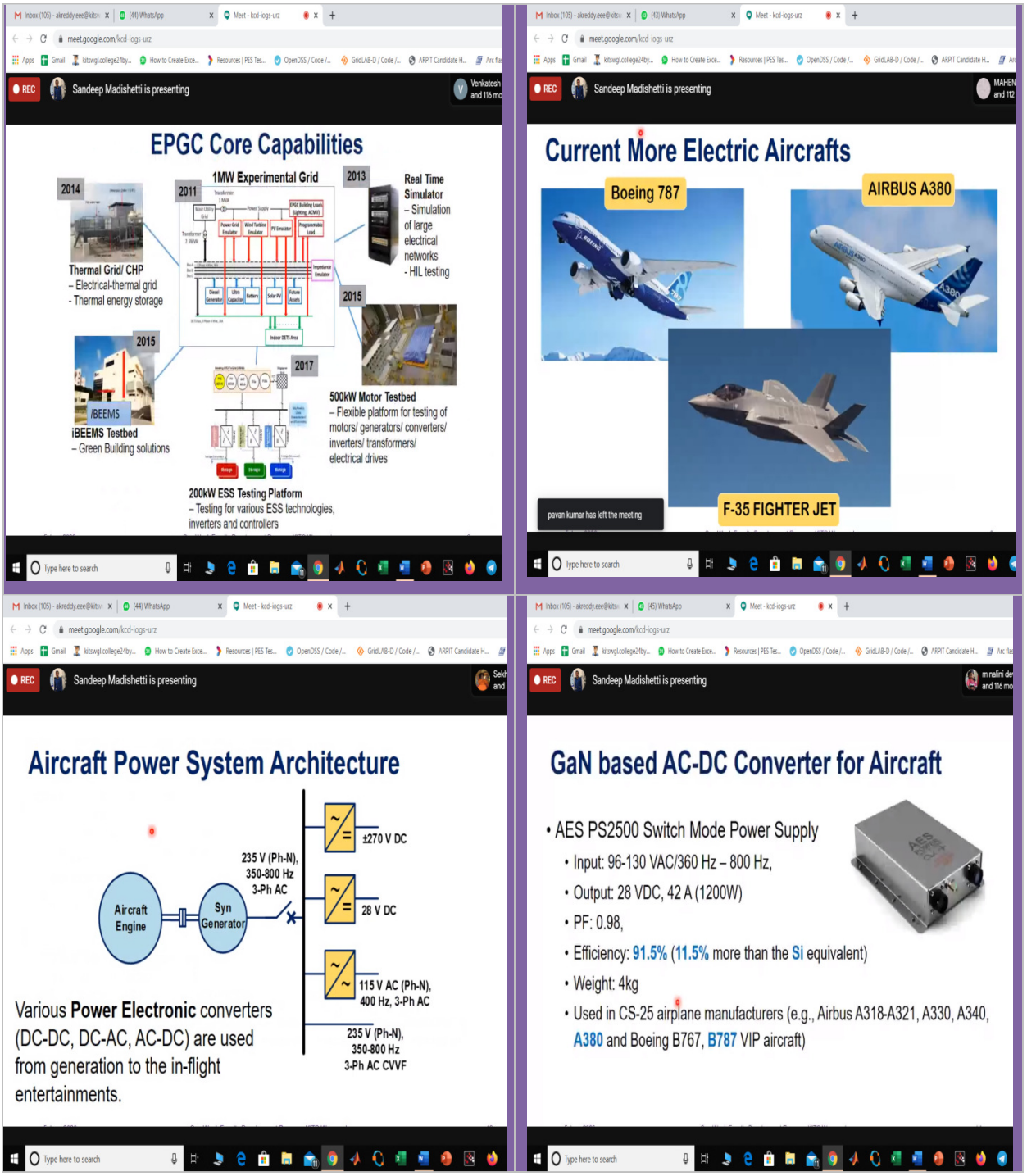


Photo 11: Dr. Sandeep Madishetti, while delivering the Lecture



Dr. Sandeep Madishetti session screen shots

DATE: 05-06-2020
TIME: 4.30 – 4.45pm

SESSION: II

TITLE: Valedictory

- Principal, Professor K. Ashoka Reddy has congratulated all the participants, Coordinators and convener for successful completion of FDP.

Prof. K. Ashoka Reddy, while speaking in the Valedictory

ISTE Sponsored One Week Faculty Development Program (Online) on
Micro Grid, Electric Vehicles and Allied Areas
1st– 5thJune 2020
Organized by
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

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SAMPLE CERTIFICATE OF PARTICIPANT AND RESOURCE PERSON

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
WARANGAL- 506 015
(An AUTONOMOUS Institute Under Kakatiya University, Warangal)
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PARTICIPATION CERTIFICATE

No: KITSW/EEED/FDP/MGEVAA20/P001

This is to certify that **A.BHANUCHANDAR** working as **Research Scholar** in **NIT Warangal** has actively participated in ISTE sponsored one week online faculty development program on **"MICRO GRID, ELECTRIC VEHICLES AND ALLIED AREAS (MGEVAA-20)"** organized by Department of Electrical & Electronics Engineering held during **1st to 5th June, 2020.**

Prof. V. Rajagopal
Coordinator, MGEVAA-20
Professor, EEED, KITSW.

Prof. C. Venkatesh
Convenor, MGEVAA-20
Professor & HoD, EEED, KITSW.

Prof. K. Ashoka Reddy
Principal, KITSW.

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
WARANGAL- 506 015
(An AUTONOMOUS Institute Under Kakatiya University, Warangal)
DEPARTMENT OF ELECTRICAL & ELCTRONICS ENGINEERING

CERTIFICATE OF APPRECIATION

No: KITSW/EEED/FDP/MGEVAA20/RP01

This is to certify that **Dr. M. MITHUN BHASKAR** working as **Head, Model Based Design** in **TATA ELXSI** has delivered a lecture on **xEV Autonomy, Retrofitting and MBD** in ISTE sponsored one week online faculty development program on **"MICRO GRID, ELECTRIC VEHICLES AND ALLIED AREAS (MGEVAA-20)"** organized by Department of Electrical & Electronics Engineering held during **1st to 5th June, 2020.**

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Convenor, MGEVAA-20
Professor & HoD, EEED, KITSW.

Prof. K. Ashoka Reddy
Principal, KITSW.

Sample Feedback Form

KITSW_EEED_MGEVAA_FDP_Day-5(Afternoon Session)_Feedback form

Email ID: *

nishanthkatam@gmail.com

Full Name of the Participant (Required as per certificate) *

Katam Nishanth

Designation *

- ○ Professor
- ○ Associate Professor
- ○ Assistant Professor
- ◉ Research Scholar
- ○ Others

Name of the Department *

Electrical Engineering

Name of Organisation / Institute: *

IISc Bangalore

Place of work *

Bangalore

State *

Karnataka

Mobile Number *

9441843624

How would you rate the Session-1? (Dr. Kalpana Ramesh Babu -Battery management System for EVs) *

	1	2	3	4	5	
Poor	○	○	○	○	◉	Excellent

How would you rate the Session-2? (Dr. Sandeep Madishetti -Advanced Power Electronics Applications in Aerospace, EV and Renewable Energy) *

	1	2	3	4	5	
Poor	○	○	○	○	◉	Excellent

Any suggestions you would like to give:

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