



THIRD INTERNATIONAL CONFERENCE ON POWER,  
CONTROL AND COMPUTING TECHNOLOGIES

# Hybrid Conference **SCHEDULE**

18<sup>TH</sup> – 20<sup>TH</sup> January 2024



Student Branch  
NIT Raipur



# SCHEDULE-AT-A- GLANCE

## DAY-1: 18<sup>TH</sup> JANUARY 2024 (\* All timings are in IST)

TIME	PROGRAM
10:00 AM – 11:00 AM	Inaugural Function (Hybrid Mode)
11:00 AM – 11:15 AM	BREAK
11:15 AM – 12:15 PM	Keynote Session-1(Hybrid Mode)
12:15 PM – 01:30 PM	Technical Session-1 (Online)
12:15 PM – 01:30 PM	Technical Session-2 (Offline)
01:30 PM – 02:30 PM	LUNCH
02:30 PM – 05:00 PM	Technical Session-3 (Online)
02:30 PM – 05:00 PM	Technical Session-4 (Online)
02:30 PM – 05:00 PM	Technical Session-5 (Online)
02:30 PM – 05:00 PM	Technical Session-6 (Offline)

### TECHNICAL SESSIONS DETAILS

TECHNICAL SESSION (12:15 PM – 01:30 PM)	PAPER IDs
Technical Session-1 (SG-1)	64, 96, 313, 308, 140, 276, 278
Technical Session-2 (IC-1)	310, 141, 94, 351, 211

TECHNICAL SESSION (02:30 PM – 05:00 PM)	PAPER IDs
Technical Session-3 (PS-1)	50, 127, 173, 184, 191, 196, 284, 299, 323, 325, 344, 311
Technical Session-4 (RE-1)	1, 75, 110, 136, 165, 170, 194, 216, 244, 266
Technical Session-5 (PE-1)	9, 17, 56, 71, 100, 114, 119, 122, 123, 129
Technical Session-6 (PE-2)	61, 76, 109, 157, 221, 255, 256, 82, 303, 306, 350, 103, 289

# SCHEDULE-AT-A- GLANCE

**DAY-2: 19<sup>TH</sup> JANUARY 2024 (\* All timings are in IST)**

TIME	PROGRAM
09:00 AM – 10:00 AM	Keynote Session-2 (Hybrid Mode)
10:00 AM – 10:15 AM	BREAK
10:15 AM – 12:15 PM	Technical Session-7 (Online)
10:15 AM – 12:15 PM	Technical Session-8 (Online)
10:15 AM – 12:15 PM	Technical Session-9 (Online)
10:15 AM – 12:15 PM	Technical Session-10 (Offline)
12:15 PM – 01:30 PM	LUNCH
01:30 PM – 04:00 PM	Technical Session-11 (Online)
01:30 PM – 04:00 PM	Technical Session-12 (Online)
01:30 PM – 04:00 PM	Technical Session-13 (Online)
01:30 PM – 04:00 PM	Technical Session-14 (Offline)
04:00 PM – 04:15 PM	BREAK
04:15 PM – 05:15 PM	Keynote Session-3 (Hybrid Mode)
07:00 PM ONWARDS	GALA DINNER

## TECHNICAL SESSIONS DETAILS

TECHNICAL SESSION (10:15 AM – 12:15 PM)	PAPER IDs
Technical Session-7 (PE-3)	135, 214, 240, 268, 318, 338, 26, 32, 185, 307, 348
Technical Session-8 (RE-2)	322, 330, 118, 213, 264, 293, 335, 346, 349, 117
Technical Session-9 (AI-1)	57, 63, 70, 183, 208, 235, 272, 277, 91, 112, 251
Technical Session-10 (RE-3)	337, 219, 339, 279, 13, 147, 217, 309, 248, 326

TECHNICAL SESSION	PAPER IDs
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# SCHEDULE-AT-A- GLANCE

(01:30 PM – 04:00 PM)	
Technical Session-11 (PS-2)	130, 156, 225, 300, 20, 46, 206, 241, 288, 21
Technical Session-12 (SIP-1)	15, 16, 137, 186, 220, 229, 265, 324, 131, 193,
Technical Session-13 (PE-4)	24, 36, 190, 204, 205, 218, 328, 252, 215, 133, 22
Technical Session-14 (PS-3)	121, 139, 174, 198, 315, 317, 329, 171, 107, 143, 283, 297, 302

**DAY-3: 20<sup>TH</sup> JANUARY 2024** (\* All timings are in IST)

TIME	PROGRAM
10:00 AM – 11:00 AM	Keynote Session-4 (Hybrid Mode)
11:00 AM – 11:15 AM	BREAK
11:15 AM – 01:45 PM	Technical Session-15 (Online)
01:45 PM – 03:30 PM	LUNCH
03:30 PM – 05:00 PM	Valedictory Function (Hybrid Mode)

## TECHNICAL SESSIONS DETAILS

TECHNICAL SESSION (10:15 AM – 12:15 PM)	PAPER IDs
Technical Session-15 - (IC-2)	79, 92, 124, 132, 327, 331, 333, 93, 145

## SCHEDULE-IN-DETAIL (DAY-1)

**DAY-1: 18<sup>TH</sup> JANUARY 2024 (\* All timings are in IST)**

TIME	PROGRAM
10:00 AM – 11:00 AM	Inaugural Function (Hybrid Mode)
11:00 AM – 11:15 AM	BREAK
11:15 AM – 12:15 PM	Keynote Session-1(Hybrid Mode)
12:15 PM – 01:30 PM	Technical Session-1 (Online)
12:15 PM – 01:30 PM	Technical Session-2 (Offline)
01:30 PM – 02:30 PM	LUNCH
02:30 PM – 05:00 PM	Technical Session-3 (Online)
02:30 PM – 05:00 PM	Technical Session-4 (Online)
02:30 PM – 05:00 PM	Technical Session-5 (Online)
02:30 PM – 05:00 PM	Technical Session-6 (Offline)

Inaugural Function: **Venue: Sir Visvesvaraya Hall (E-Hall) for offline**

**Meeting Link:**

<https://us06web.zoom.us/j/85346303097?pwd=mIP9z3l5S6bXbpNkPV4oNzaqQAXuQQ.1>

Keynote Session-1: **Venue: Sir Visvesvaraya Hall (E-Hall) for offline**

**Meeting Link:**

<https://us06web.zoom.us/j/83659205317?pwd=l9Es5pKLSn6DqtBKajzH9GXGkjIMNk.1>

**Resource Person:**

Prof. (Dr.) Bhim Singh  
Department of Electrical Engineering  
Indian Institute of Technology Delhi  
New Delhi-110016-India



## TECHNICAL SESSION DETAILS

### Technical Session-1 (SG-1)-Online

Session Chair: 1. Dr. Aragya Mitra, VNIT Nagpur  
2. Dr. Subhojit Ghosh, NIT Raipur

**Session Link:**

<https://us06web.zoom.us/j/85621029143?pwd=zDXuYTnOJdJnOl9DqTukPbZb12RtFl.1>

(Session will be hosted in room no: D2, Virtual Classroom)

Timing: 12:15 PM – 01:30 PM

Paper ID	Paper Title and Corresponding Author	Authors
64	Real-Time Hardware-in-Loop Testbed for Power System Analysis Author: Dr. Faruk Kazi	Dr. Faruk Kazi ; Sunny Kumar VJTI Mumbai
96	Stealthy False Data Injection Cyberattack Targeting Under load Tap Changing Transformers in Smart Power Grid Causing Abnormal Voltage Profile Author: Arash Asrari2	Arash Asrari; Dr. Ehsan Naderi Arkansas State University, Jonesboro, AR, USA
313	Blockchain based Enhanced Healthcare Framework for Secure Interoperability Author: Satish Kumar	Satish Kumar MNNIT-Allahabad
308	Application of DG droop equations for State Estimation of Islanded AC Microgrids Author: Kandukuri Surendra	Kandukuri Surendra; Biswarup Das; Vinay Pant INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
140	Long-Term Load Forecasting: A Systematic Review with Focus on Microgrid Application Author: Bibhudatta Patnaik	Bibhudatta Patnaik Eaton India Innovation Centre
276	An Image Retrieval System Based on Textual Information and Features Author: J Goda Pranathi	J Goda Pranathi SRM AP
278	Fuzzy C-Means Clustering Approach for Green IoT in Smart Cities Author: Aya Ayad Hussein	Aya Ayad Hussein Department of Network Engineering Faculty of Engineering, Al-Iraqia University Baghdad, Iraq

# SCHEDULE-IN-DETAIL (DAY-1)

## Technical Session-2 (IC-1)-Offline

Session Chair: 1. Dr. Guru Prasad Subas Chandra Mishra, NIT Raipur

2. Dr. Ramya Selvaraj, NIT Raipur

**Room No: Sir Visvesvaraya Hall (E-Hall)**

**Timing: 12:15 PM – 01:30 PM**

Paper ID	Paper Title and Corresponding Author	Authors
94	A Metaheuristic Approach based Adaptive Filter Design for EEG Noise Mitigation Application Author: Shubham Yadav	Shubham Yadav; Suman Kumar Saha National Institute of Technology Raipur Dr. Rajib Kar NIT Durgapur
141	Comparative analysis of NoSQL and time series databases for fast data acquisition system of Indus-2 Author: Abhisek Nayak	Abhisek Nayak Raja Ramanna Centre for Advanced Technology, Department of Atomic Energy, Govt. of India
310	Hardware implementation of Shadow lightweight block cipher for resource-constrained IoT devices Author: Bibhudendra Acharya	Bibhudendra Acharya Associate Professor, NIT Raipur
351	Design of a User friendly IOT based interface for the collection of multimodal data from Autistic children Author: Dr. Chandrashekhar Jatot	Soumya Jain; Dr. Chandrashekhar Jatot; Hridam Palwe; Nakshatra Singh and Satwik Agrawal National Institute of Technology, Raipur
211	Enhanced Color Image Quantization Utilizing Hybrid Glowworm Swarm Optimization and K-Means Clustering: A Case Study with Chandrayaan-3 Images Author: Arjun G Desur	Arjun G Desur; RAVI KUMAR JATOTH National Institute of Technology Warangal

# SCHEDULE-IN-DETAIL (DAY-1)

## Technical Session-3 (PS-3)-Online

Session Chair: 1. Dr. Bhavesh Kumar R.Bhalja, IIT Roorkee

2. Dr. Anamika Yadav, NIT Raipur

**Session Link:**

[https://us06web.zoom.us/j/87807578551?pwd=1wAR8NHkirufQS0gwnGHTe0](https://us06web.zoom.us/j/87807578551?pwd=1wAR8NHkirufQS0gwnGHTe0Nhu5VkJX1)

[Nhu5VkJX1](#)

**(Session will be hosted in room no: D2, Virtual Classroom)**

Timing: 02:30 PM – 05:00 PM

Paper ID	Paper Title and Corresponding Author	Authors
50	Analysis of Multi Area Load Frequency Control Under Bilateral Market Incorporating Renewable Energy Source Author: Rakhi Das	Rakhi Das Intranet Amrita Vishwa Vidyapeetham - Coimbatore
127	Environment-Friendly Economic Load Dispatch Using a Novel GSA-BBO Hybridization Algorithm Author: Niranjan Kumar	Niranjan Kumar; Shuvam Sahay NIT Jamshedpur
173	Optimal Installation of DG's in Distribution System Using Competitive Swarm Optimizer Considering different Non-Linear Load Models Author: Soumyabrata Das	Soumyabrata Das; Nil Kamal Yadav Visvesvaraya National Institute of Technology, Nagpur
184	Supraharmonic Analysis by Welch's-Power Spectral Density Estimation Author: Subramaniya Siva A	Subramaniya Siva A Annamalai University, Chidambaram, Tamilnadu
191	Combined PCA and Kernel-based Extreme Learning Machine Technique for Classification of Faults in IEEE 9-Bus system Author: Dr. Nilesh Chothani	Dr. Nilesh Chothani Pandit Deendayal Energy University
196	IoT-Based Smart Energy Monitoring, Management, and Protection System for a Smart MicroGrid Author: Md. Ibne Joha	Md. Ibne Joha Khulna University of Engineering & Technology
284	Sizing and Performance Analysis of a Battery Energy Storage System in Bangladesh Distribution System Author: Kazi Meharajul Kabir	Kazi Meharajul Kabir Prairie View A&M University
299	LSTM Classifier Based Fault Detection Scheme for One-Open Conductor Faults in Six-phase Transmission Line Author : Tirupathi Rao Althi	Tirupathi Rao Althi NIT Raipur

## SCHEDULE-IN-DETAIL (DAY-1)

323	<p><b>Frequency Management in Power Systems with Uncertain Loads and Generation: A Model Predictive Control Approach</b></p> <p><b>Author:</b> Ananyo Sengupta</p>	<b>Ananyo Sengupta</b> NIT Rourkela
325	<p><b>A Case Study on Protection of Pumped Storage Hydro-Generator against Stator Earth Fault</b></p> <p><b>Author:</b> Digvijay Dabade</p>	<b>Digvijay Dabade</b> College of Engineering Pune
344	<p><b>Voltage Stability Enhancement for EV Stations: An Optimal Mechanism Utilizing a Smart Solar Inverter</b></p> <p><b>Author:</b> Kazi Meharajul Kabir</p>	<b>Kazi Meharajul Kabir; Md Ashraful Alam</b> Operation Technology Inc. (DBA ETAP)
311	<p><b>Analyzing the Impact of False Data Injection Attacks on the Energy Market</b></p> <p><b>Author:</b> Seshasai Brundavanam</p>	<b>Seshasai Brundavanam; Ebha Koley; Dr. Subhojit Ghosh</b> National Institute of Technology Raipur

# SCHEDULE-IN-DETAIL (DAY-1)

## Technical Session-4 (RE-1)-Online

Session Chair: 1. Dr. Sateesh Kumar Kuncham, NIT Trichy

2. Dr. D. Suresh, NIT Raipur

### Session Link:

<https://us06web.zoom.us/j/84458623231?pwd=IR7N4cSDBhHg2G68oeGAqCz>

[WkDFgw3.1](#)

(Session will be hosted in room no: S4)

Timing: 02:30 PM – 05:00 PM

Paper ID	Paper Title and Corresponding Author	Authors
1	Lemurs Algorithm for Optimal Location and Sizing of Distributed Generation in Electrical Distribution Network <b>Author:</b> Kuchibhotla Srijala Lalitha	Kuchibhotla Srija Lalitha; Prasad V. Potluri Siddhartha Institute of Technology
75	Energy Highway: A Community-Centric Approach for Decentralized Green Energy Exchange and Self-Sufficiency <b>Author:</b> K Victor Sam Moses Babu	K Victor Sam Moses Babu BITS Pilani, Hyderabad Campus
110	Optimal Selection of Evolutionary based MPPT Algorithm for PV arrays under Multiple Partial Shading Condition <b>Author:</b> Krishnendu H S	Krishnendu H S Amrita University
136	A Grid-Connected Hybrid System Utilizing Solar & Waste of Chattogram City <b>Author:</b> Kazi Meharajul Kabir	Kazi Meharajul Kabir Prairie View A&M University
165	Utilization of Road Infrastructure with a Hybrid of Solar PV and SEGP Energy for Drinking Water and eBike Charging Station <b>Author:</b> Kazi Meharajul Kabir	Kazi Meharajul Kabir Prairie View A&M University
170	Power Management of Novel DC-DC Converter for Microgrids <b>Author:</b> Stuttee Patra	Stuttee Patra C V Raman Global University
194	Performance Evaluation of Lead Free CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> Perovskite Solar Cell: A Simulation Approach by SCAPS-1D. <b>Author:</b> Md. Shahriar Rahman	Md. Shahriar Rahman Hajee Mohammad Danesh Science and Technology University, Bangladesh.

## SCHEDULE-IN-DETAIL (DAY-1)

216	Three-Phase Grid Interfaced PV-BS System with Enhanced Power Quality <b>Author:</b> Prerana Mohapatra	Prerana Mohapatra National Institute of Technology Rourkela, India
244	Health Monitoring of Solar Photovoltaic Panels and Data Acquisition System using IoT <b>Author:</b> Anupama Chaudhary	Anupama Chaudhary Motilal Nehru National Institute of Technology Allahabad, Prayagraj
266	Stability Analysis of Microgrid System with Active Load in Autonomous Mode <b>Author:</b> Yangyadatta Tripathy	Yangyadatta Tripathy Indian Institute of Technology Roorkee

# SCHEDULE-IN-DETAIL (DAY-1)

## Technical Session-5 (PE-1)-Online

Session Chair: 1. Dr. Ch. Ramulu, NIT Warangal

2. Dr. Venu Sonti, NIT Raipur

### Session Link:

<https://us06web.zoom.us/j/85692459239?pwd=3gtPF5IHsUywZTsKKkLvyRbU0wY1DI.1>

(Session will be hosted in Computer Lab, Dept. of Electrical Engineering)

Timing: 02:30 PM – 05:00 PM

Paper ID	Paper Title and Corresponding Author	Authors
9	Half Bridge Compensator Design for THD Reduction and DC Link Voltage Stabilisation of Electric Traction <b>Author:</b> Ashish Kumar	Ahsish Kumar National Institute of Technology, Jamshedpur
17	Performance Analysis of solar powered EV with Transformer Buck-boost Converter. <b>Author:</b> Arpana AR	Arpana AR Amrita University, Coimbatore
56	Design, Development and Performance of Cryocooler Drive Electronics for Sea Surface Temperature Monitor Payload <b>Author:</b> P Nandha Kumar	P Nandha Kumar Space Applications Centre, ISRO
71	Unitized Double Sided Linear Switched Reluctance Motor with Auxiliary Winding for Rope Less Elevators <b>Author:</b> Anusha Vadde	Anusha Vadde M S Ramaiah University of Applied Sciences
100	Real-Time SOC Estimation of Li-ion Battery Pack Using Improved Kalman Filter. <b>Author:</b> Rishita Singh	Rishita Singh National Institute Of Technology, Rourkela
114	Forward LC – Reverse LCC Bidilateral Resonant Convertor for Buck and Boost Operation <b>Author:</b> Piyush Gajbhiye	Piyush Gajbhiye VNIT, NAGPUR
119	Comparative Analysis of Various Sinusoidal Pulse Width Modulation Techniques <b>Author:</b> Satabdi bhattacharya	Satabdi Bhattacharya NIT ROURKELA
122	A New Single-Phase Dual-Mode Active Neutral Point-Clamped Five-Level Inverter for Renewable Applications <b>Author:</b> Dr. A. Kirubakaran	Dr. A. Kirubakaran National Institute of Technology Warangal
123	A New Common Ground Single-Phase Transformerless Five-Level Inverter for Photovoltaic Applications <b>Author:</b> Dr. A. Kirubakaran	Dr. A. Kirubakaran National Institute of Technology Warangal

## SCHEDULE-IN-DETAIL (DAY-1)

129	Unitized Double Sided Linear Switched Reluctance Motor with Auxiliary Winding for Rope Less Elevators <b>Author:</b> Dr. Shailendra Kumar	Dr. Shailendra Kumar, Kalash Srivastava NIT Surat
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# SCHEDULE-IN-DETAIL (DAY-1)

## Technical Session-6 (PE-2)-Offline

Session Chair: 1. Dr. M.K. Badapanda, RRCAT Indore

2. Dr. Varsha Singh, NIT Raipur

**Room No: Sir Visvesvaraya Hall (E-Hall)**

**Timing: 02:30 PM – 05:00 PM**

Paper ID	Paper Title and Corresponding Author	Authors
61	A Simulation Analysis of 30 kV / 5A DC Power Supply for Neutral Beam Injectors <b>Author:</b> Aditya Naugraiya	Aditya Naugraiya Institute for Plasma Research, Gandhinagar
76	Dual Input Step-up Converter for Portable Devices <b>Author:</b> Nilesh H Jagtap	Nilesh H Jagtap, Swapnajit Pattnaik NIT Raipur
109	Soft Switching Dual Active Bridge Converter for Electric Vehicle Charging Infrastructure on Dual Load Application <b>Author:</b> Sarthak Rohan Swain	Sarthak Rohan Swain BIT MESRA
157	"Fault-Tolerant Strategy for Asymmetrical Half-Bridge Converter in Switched Reluctance Motor Drives" <b>Author:</b> Sumit Kumar	Sumit Kumar VNIT NAGPUR
221	Performance of Single-Stage And Dual-Stage EV Battery Chargers For G2V And V2G Operation <b>Author:</b> Akash Ganne	Akash Prakash Ganne NIT Raipur
255	TPUPS topology implemented with Model Predictive Control <b>Author:</b> Shubham Sinha	Shubham Sinha National Institute of Technology, Rourkela
256	Comparative Analysis of CMV Variation Using Different BUS Clamping SVPWM Techniques <b>Author:</b> Namilikonda Aakansha	Namilikonda Aakansha VNIT NAGPUR
82	Power Flow Analysis of 2×27.5 kV Traction Network with Single-Phase Transformer and V/V Transformer at Traction Substation <b>Author:</b> Prasanjit Kar	Prasanjit Kar IIT ROORKEE
303	Power Factor Correction by Phase Angle Regulation using Multi Level Inverter based DVR <b>Author:</b> R.J. Satputaley	R.J. Satputaley, Renuka Dhote Visvesvaraya National Institute of Technology, Nagpur
306	Model Predictive Control For Nine Phase Induction Motor <b>Author:</b> Amit Kumar Singh	Amit Kumar Singh National Institute of Technology Raipur

## SCHEDULE-IN-DETAIL (DAY-1)

<b>350</b>	common mode voltage reduction in space vector modulated DTC IMD <b>Author:</b> Sachin Jain	<b>Sachin Jain</b> NIT Raipur
<b>103</b>	Performance Analysis of Five-Phase System for Various Bus-Clamping Space Vector Based Pulse Width Modulation Methods <b>Author:</b> Sourabh Ashok Sadale	<b>Saurabh Ashok Sadale</b> Visvesvarya National Institute of Technology, Nagpur
<b>289</b>	DFIG Performance Enhancement: Experimental Validation and Comparative Study of POD Integrated Control Techniques in Wind Turbines <b>Author:</b> Jawaharlal Bhukya	<b>Jawaharlal Bhukya</b> Electrical Engineering Department, Visvesvaraya National Institute of Technology (VNIT).

## SCHEDULE-IN-DETAIL (DAY-2)

**DAY-2: 19<sup>TH</sup> JANUARY 2024 (\* All timings are in IST)**

TIME	PROGRAM
09:00 AM – 10:00 AM	Keynote Session-2 (Hybrid Mode)
10:00 AM – 10:15 AM	BREAK
10:15 AM – 12:15 PM	Technical Session-7 (Online)
10:15 PM – 12:15 PM	Technical Session-8 (Online)
10:15 PM – 12:15 PM	Technical Session-9 (Online)
10:15 PM – 12:15 PM	Technical Session-10 (Offline)
12:15 PM – 01:30 PM	LUNCH
01:30 PM – 04:00 PM	Technical Session-11 (Online)
01:30 PM – 04:00 PM	Technical Session-12 (Online)
01:30 PM – 04:00 PM	Technical Session-13 (Online)
01:30 PM – 04:00 PM	Technical Session-14 (Offline)
04:00 PM – 04:15 PM	BREAK
04:15 PM – 05:15 PM	Keynote Session-3 (Hybrid Mode)
07:00 PM ONWARDS	GALA DINNER

**Keynote Session-2: Venue: Sir Visvesvaraya Hall (E-Hall) for offline**

**Meeting Link:**

<https://us06web.zoom.us/j/84882544303?pwd=IJXzH5yevontEmIWmFcbTa74M716Mh.1>

**Resource Person:**



**Prof. Akshay Rathore**  
Singapore Institute of Technology (SIT),  
Singapore

**Keynote Session-3: Venue: Sir Visvesvaraya Hall (E-Hall) for offline**

**Meeting Link:**

<https://us06web.zoom.us/j/85741321386?pwd=YbHZH7r92gPB3UPbSUtGQbV2oP7zTn.1>

## Resource Person:



**Prof. Ramesh Bansal**

Professor, Electrical Eng. Department  
College of Engineering, University of Sharjah

## TECHNICAL SESSION DETAILS

### Technical Session-7 (PE-3)-Online

**Session Chair:** 1. Dr. Siva Kumar, NIT Warangal  
2. Dr. Hari Priya Vemuganti, NIT Raipur

#### Session Link:

<https://us06web.zoom.us/j/86409060579?pwd=cFp0WDaR8fbD2avl6qMGmKPTXzf0Y7.1>

(Session will be hosted in room no: D2, Virtual Classroom)

**Timing:** 10:15 PM – 12:15 PM

Paper ID	Paper Title and Corresponding Author	Authors
135	Impact Analysis of Lithium-Ion Battery Storage System for Sustainable Energy-Generating Pad Applications <b>Author:</b> Kazi Meharajul Kabir	Kazi Meharajul Kabir Prairie View A&M University
214	Control and Implementation of Interleaved DC-DC Converter-Based IPMSM Drive for Electric Vehicle Applications <b>Author:</b> A Sanyasi Naidu	A Sanyasi Naidu National Institute Of Technology Rourkela
240	A New Single-Phase Fault-Tolerant Type Five-Level Inverter with 100% DC Utilization <b>Author:</b> Dr. A. Kirubakaran	Dr. A. Kirubakaran National Institute of Technology Warangal
268	Electric Vehicle to Vehicle (V2V) Power Transfer with On-board Network and Capacitor-link <b>Author:</b> Reddimalla Mounika	Reddimalla Mounika National Institute of Technology Warangal

## SCHEDULE-IN-DETAIL (DAY-2)

318	A Novel Reduced Based Switch Voltage Tripler Circuit for Electric Fence Energizer Applications Author: Raghav	Raghav Indian Institute of Technology Jodhpur
338	Review of Present Status and Recent Development in Active Cell Balancing Technique Author: Shukla Karmakar	Shukla Karmakar National Institute of Technology Durgapur
26	Investigation of Core Loss in Electric Vehicle Induction Motor using Finite Element Analysis for Performance Enhancement Author: Sachin S.	Sachin S. M S Ramaiah University of Applied Sciences
32	Research and Evaluate the Impact of Electric Vehicle Integration in Microgrid on Bach Long Vy Island, Vietnam Author: Nguyen Van Hung	Nguyen Van Hung Vietnam maritime university
185	Performance Evaluation of Direct Torque Control and Model Predictive Control Based on Voltage Vector Strategy for SRM Drive Author: M Deepak	M Deepak SRM Institute of Science and Technology
307	SOH Based Power Sharing Algorithm for Second-life Batteries Using Health Factors Author: M. Srikanth Reddy	M. Srikanth Reddy Indian Institute of Technology Roorkee
348	Inductor current harmonic analysis in DC-DC Dual Active Bridge Converter with Various Control Techniques Author: Harish Bhawane	Harish Bhawane VNIT Nagpur

## SCHEDULE-IN-DETAIL (DAY-2)

### Technical Session-8 (RE-2)-Online

**Session Chair:** 1. Dr. Ramsha Karampuri, VNIT Nagpur  
2. Dr. Ebha Koley, NIT Raipur

#### Session Link:

<https://us06web.zoom.us/j/81129735576?pwd=LBW0bSjzazsYWj0joVdj7w8seM7oiD.1>

(Session will be hosted in room no: S4)

**Timing:** 10:15 PM – 12:15 PM

Paper ID	Paper Title and Corresponding Author	Authors
322	Optimal Droop Control for Current Sharing among Different Types of Battery Energy Storage Systems Author: Rohan Lalwani	Rohan Lalwani IIT Roorkee
330	A Transformer less Two-Stage Three-Port Power Converter with Battery Storage for PV Systems Author: Sateesh Kumar Kuncham	Sateesh Kumar Kuncham; Mr.Nagaraju Kothapalli National Institute of Technology Tiruchirappalli
118	Broadband Absorption Spectroscopy for Carbon dioxide Gas Sensing using Hollow Core Fibre Author: Chirag Sahu	Chirag Sahu National Institute of Technology Raipur
213	Flexible GTVSG Power Quality Enhancement Using Resilient Heterogeneous Voltage and Current Control Author: Sameer Kumar Behera	Sameer Kumar Behera National Institute of Technology Rourkela
264	Design, Modelling and Seamless Control of an Offgrid DFIG-Battery Energy Storage Based Wind Energy Conversion System for Remote Dwellings Author: Subhadip Chakraborty	Subhadip Chakraborty Indian Institute of Technology Delhi
293	Structural Analysis of Slotted Rotor for 10,000 rpm Switched Reluctance Machine Author: Ashutosh Patel	Ashutosh Patel IISc Bangalore
335	Real-time Solar Power Optimization and Energy Monitoring System with Maximum Power Point Tracking Author: Chundi Vinay Kumar	Chundi Vinay Kumar; Cherukumpalem Mohiddin Khan Velagapudi Ramakrishna Siddhartha Engineering College

## SCHEDULE-IN-DETAIL (DAY-2)

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- 346** Analysis of Synchronverter and PLL-**Rohit Kumar**  
Less Control for Three-Phase VSI in Visvesvaraya National Institute of  
AC Microgrids Technology (VNIT) Nagpur  
Author: Rohit Kumar
- 349** Coordinated control of PV, battery and **Saquib Khan**  
supercapacitor in DC microgrid VNIT Nagpur  
Author: Saquib Khan
- 117** An Improved Ultra High Gain Quadratic **Abdullah Al Mahbub Emon**  
Boost Converter With Classical Leading University, Sylhet, Bangladesh  
Voltage Doubler Circuit  
Author: Abdullah Al Mahbub Emon
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## SCHEDULE-IN-DETAIL (DAY-2)

### Technical Session-9 (AI-1)-Online

**Session Chair:** 1. Dr. Aleena Swetapadma, KIIT University  
2. Dr. B. N. Bag, NIT Raipur

#### Session Link:

<https://us06web.zoom.us/j/86384317395?pwd=fIxcG4q0zG5APolincCRLk7X6EN7ho.1>

(Session will be hosted in Computer Lab, Dept. of Electrical Engineering)

**Timing:** 10:15 AM – 12:15 PM

Paper ID	Paper Title and Corresponding Author	Authors
57	Enhancing Power Transformer Reliability through Machine Learning-Based Fault Prediction Using Dissolved Gas Analysis <b>Author:</b> Gayatri Sujitkumar Patil	Gayatri Sujitkumar Patil Government College of Engineering, Karad
63	Regurised Hybrid Deep Learning for DDOS Attack Prediction in Software Defined Internet of Things (SD-IoT) <b>Author:</b> Deepthy J	Deepthy J Amrita Vishwa Vidyapeetham, Coimbatore
70	Optimal Load Prediction in a Smart Metering Network using Random Forest Algorithm <b>Author:</b> Dr.Krishna Pavan Inala	Dr. Krishna Pavan Inala B.V.Raju Institute of Technology Narsapur
183	Investigating Neural Network Hyperparameter Variations in Robotic Arm Inverse Kinematics for Different Arm Lengths <b>Author:</b> Jyotindra Narayan	Jyotindra Narayan; Rania Bouzid Higher Institute of Information and Communication Technologies, University of Carthage
208	Evaluating Model Performance Through a User-Centric Explainable Framework for Probabilistic Load Forecasting Models <b>Author:</b> Rebecca Robin	Rebecca Robin Nirma University
235	Breaking New Ground: High-Accuracy Detection and Severity Analysis of Onion Smut Using AI <b>Author:</b> Rishabh Sharma	Rishabh Sharma Chitkara University Institute of Engineering and Technology Chitkara University Punjab, India
272	DDoS Attack Classification Leveraging Data Balancing and Hyperparameter Tuning Approach Using Ensemble Machine Learning with XAI <b>Author:</b> Zeyar Aung	Zeyar Aung; Abdullah Al Maruf Bangladesh University of Business and Technology

## SCHEDULE-IN-DETAIL (DAY-2)

277	Exploring Elderly Activity Recognition Using Deep Learning through Sensor-Enabled Android App Data Collection <b>Author:</b> Zeyar Aung	Zeyar Aung; Abdullah Al Maruf Bangladesh University of Business and Technology (BUBT)
91	Performance Evaluation of Solar Photovoltaic Generation Forecasting using Machine Learning Algorithms <b>Author:</b> Shereen Siddhara Abdul Salam	Shereen Siddhara Abdul Salam; Petra M I; Abdul Kalam Azad; Sheik Mohammed Sulthan; Veena Raj Universiti Brunei Darussalam
112	Predictive Analytics Beyond the Hype: A Comprehensive Comparison of LSTM, XGBoost and LightGBM with Emphasis on RMSE and CPU Utilization <b>Author:</b> Abhinav Chola	Abhinav Chola Bharat Electronics Limited
251	Intelligent Maintenance Scheduling and Decision Support Model for Industry 4.0 System based on Severity Factors and Priority Weights <b>Author:</b> Rupali Rastogi	Rupali Rastogi Bharat Electronics Ltd

### Technical Session-10 (RE-3)-Offline

**Session Chair:** 1. Dr. Shashank Kurm, IIT Bhilai  
2. Dr. Rajan Kumar, NIT Raipur

**Room No:** Sir Visvesvaraya Hall (E-Hall)

**Timing:** 10:15 PM – 12:15 PM

## SCHEDULE-IN-DETAIL (DAY-2)

Paper ID	Paper Title and Corresponding Author	Authors
337	V2V Charging and Solar Integration to Overcome Range Anxiety in Electric Vehicles  Author: Kumar Raghavendra GB	Kumar Raghuvendra GB Visvesvaraya National Institute of Technology (VNIT Nagpur)
219	Approximation of Grid Connected Higher Order Wind Turbine Generator System Employing Direct Truncation  Author: Rahila Parveen	Rahila Parveen Electrical Engineering Department NIT Raipur
339	Novel Control Topology for Electric Fence Energizer Based on Small Wind Turbine & Battery  Author: Praveen Kumar Dhakar	Praveen Kumar Dhakar IIT Jodhpur
279	Single-Phase Single-Stage Transformerless PV Inverter Used for the Minimization of Leakage Current in the Grid Connected Systems  Author: Dr. Venu Sonti	Dr. Venu Sonti National Institute of Technology, Raipur
13	An Ultra High Gain Quadratic Boost Converter with Low Electric Stress and Lower Inductor Currents for Photovoltaic Applications  Author: SURLA VISHNU KANCHANA NARESH	SURLA VISHNU KANCHANA NARESH United Arab Emirates University
147	A Quadratic Boost Two-Stage Transformerless Inverter for Single Phase Photovoltaic Applications  Author: Sukhdev Singh Neti	Sukhdev Singh Neti; Varsha Singh; Swapnajit Pattnaik National Institute of Technology Raipur Raipur
217	Comparison of Two-Stage and Single-Stage Photovoltaic Inverter for Grid-Connected System  Author: Varsha Singh	Varsha Singh; Swapnajit Pattnaik, VISHAL ANAND; Sukhdev Singh Neti National Institute of Technology Raipur
309	Current Control of Sensorless BLDC Motor using Hysteresis Control  Author: Konda Naresh	Konda Naresh, Suresh D, Swapnajit Pattnaik National Institute of Technology Raipur
248	Application of Wide Bandgap Devices in a Three-Level Neutral Point Clamped Inverter  Author: Divyanshu Bharti	Divyanshu Bharti NIT Raipur
326	Grid Connected Three Level T-type Inverter based APF for Smart Grid Applications	Suresh D National Institute of Technology Raipur

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Author: D. Suresh

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## Technical Session-11 (PS-2)-Online

**Session Chair:** 1. Dr. V. S. Kale, VNIT Nagpur  
2. Dr. K Chandrasekaran, NIT Raipur

## SCHEDULE-IN-DETAIL (DAY-2)

### Session Link:

<https://us06web.zoom.us/j/81254341596?pwd=nclc7xbmDPtG0egzPvbzgaaDn6tkc1.1>

(Session will be hosted in room no: D2, Virtual Classroom)

Timing: 01:30 PM – 04:00 PM

Paper ID	Paper Title and Corresponding Author	Authors
130	DEVELOPMENT OF SOFTWARE AND HARDWARE FOR IDENTIFICATION OF INTERTURN SHORT CIRCUIT IN SINGLE-PHASE TRANSFORMERS Author: Ivangrom	Ivan Hramyka Belarusian State University of Transport
156	Revolutionizing Fault Prediction in MetroPT Datasets: Enhanced Diagnosis and Efficient Failure Prediction through Innovative Data Refinement Author: Osamah N. NEAMAH	Osamah N. NEAMAH and Raif Bayir Karabük University
225	Virtual inertia support in AGC of deregulated interconnected power system with penetration of electric vehicles Author: Ashiwani kumar	Ashiwani kumar NIT PATNA
300	Optimized Conductor Positioning for Three Phase Double Circuit Transmission Line to Reduce Line Capacitance Author: Dhruv Shah	Dhruv Shah Indian Institute of Technology Jodhpur
20	Using ANFIS to absorb maximum power from wind power plants using PI controller Author: Morteza Azimi Nasab	Morteza Azimi Nasab; Mohammad Zand; Mostafa Azimi Nasab University of South-Eastern Norway Sanjeevikumar Padmanaban CTiF Global Capsule, Dept. of Business Development and Technology Pandav Kiran Maroti South-Eastern Norway Mohammad Ali Dashtaki, Binghamton University
46	DESIGN AND CONTROL OF SHUNT ACTIVE POWER FILTER FOR POWER QUALITY IMPROVEMENTS WITH PV ARRAY Author: Vignesh Pandian RK	Vignesh Pandian RK, Aarthi N Amrita Vishwa Vidyapeetham, Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham

## SCHEDULE-IN-DETAIL (DAY-2)

206	Performance Comparison of Routing Techniques using Sink Mobility Models for IoT assisted WSN <b>Author:</b> Akshika Jain	Akshika Jain; Dr. Gunjan; Ajay K Sharma NIT Delhi
241	Planning and Management of Peak Load Reduction in the Power Grid with the Presence of Tidal Power Plants <b>Author:</b> Amritansh Sagar	Amritansh Sagar University of Padova Morteza Azimi Nasab; Mohammad Zand; Mostafa Azimi Nasab University of South-Eastern Norway Sanjeevikumar Padmanaban Aalborg University Tina Samavat Nevada
288	Combined economic dispatch solution using African Vulture optimization algorithm <b>Author:</b> Shivam Singh	Shivam Singh M.tech Student , Dept. Of E.E , VBSPU jaunpur ,U.P, 222003
21	Providing a Smart Pricing Method to Increase Network and Consumer Profit with the Presence of Renewable Resources <b>Author:</b> Morteza Azimi Nasab	Morteza Azimi Nasab; Mohammad Zand University of South-Eastern Norway Sanjeevikumar Padmanaban Aalborg University Mohammad Ali Dashtaki; Mohsen Hatami; Mohammadhossein Abedinzadeh Binghamton University

### Technical Session-12 (SIP-1)-Online

**Session Chair:** 1. Dr. Toshan Meenpal, NIT Raipur  
2. Dr. N. D. Londhe, NIT Raipur

## SCHEDULE-IN-DETAIL (DAY-2)

### Session Link:

<https://us06web.zoom.us/j/81431292601?pwd=CZ0FxMswEyKvTAuG5LC5Zmqu6VNT4k.1>

(Session will be hosted in room no: S4)

**Timing:** 01:30 PM – 04:00 PM

Paper ID	Paper Title and Corresponding Author	Authors
15	XAI-Driven sEMG Feature Analysis for Hand Gestures Author: Naveen Gehlot	Naveen Gehlot MNIT Jaipur
16	Efficient Contaminant Identification in SEMG Signals using Machine Learning Author: Naveen Gehlot	Naveen Gehlot; Ashutosh Jena MNIT Jaipur
137	Bregman Divergence Based Approach for Adaptive System Identification and Line Enhancement Author: Parth Sharrma	Parth Sharrma Indian Institute of Technology Roorkee
186	Detection of Industrial Motor Fault using Signal Processing Algorithms Author: Debayan Bhaumik	Debayan Bhaumik NITK Surathkal
220	Autoencoders for compressed transmission of vehicular data Author: George Eldho John	George Eldho John Indian Institute of Information Technology Kottayam
229	Probabilistic analysis of GPS Spoofing Attack failures using Poisson Point Process Author: D.Kiruthika	D.Kiruthika Thiagarajar College of Engineering
265	Investigating U-Net's Reliability in Saliency Detection with Salt and Pepper Noise Author: Sandeep Chand Kumain	Sandeep Chand Kumain National Institute of Technology Uttarakhand
324	Image Segmentation Using Particle Swarm Optimization and Simulated Annealing Author: Aswathy Pavithran	Aswathy Pavithran Indian Institute of Information Technology, Kottayam
131	AEFA-Enhanced Design for Optimized FODD Author: Dr. Chandan Nayak	Dr. Chandan Nayak VIT-AP University
193	A Novel System for Enhancing Land Cover Classification in Hyperspectral Imaging Through Spectral-Spatial Fusion Using SVD-Based 3D CNN Author: Kartheek Garapati	Kartheek Garapati; Sri Satya Maram; Manikandan V M SRM University-AP

### Technical Session-13 (PE-4)-Online

**Session Chair:** 1. Dr. Rupesh Ganpatrao Wandhare, IIT Hyderabad  
2. Dr. Swapnajit Pattnaik, NIT Raipur

#### **Session Link:**

<https://us06web.zoom.us/j/85479703695?pwd=i8g87h14EwlX9j9rbUt6f40eideEmf.1>

## SCHEDULE-IN-DETAIL (DAY-2)

**(Session will be hosted in Computer Lab, Dept. of Electrical Engineering)**

**Timing:** 01:30 PM – 04:00 PM

Paper ID	Paper Title and Corresponding Author	Authors
24	TPS Control-based Current Stress Reduction for Dual Active Bridge Converters Author: Akanksha Shukla	Akanksha Shukla; Sudipta Baidya SVNIT Surat Dr Abhilash Kumar Gupta Counterpoint Technology Market Research
36	High-Speed Permanent Magnet Synchronous Motor Design for Mini Unmanned Aerial Vehicle Author: Hayatullah Nory	Hayatullah Nory, Ahmet Yildiz Firat University
190	Power Inverter Performance with Trapezoidal Triangular Carrier and Triangular Based SPWM Technique: A Comparative Analysis Author: Md. Ahsanul Alam	Md. Ahsanul Alam; Md.Tariqul Islam; Prof. Dr. Md. Fazlur Rahman; Ahanaf Ahmed; Md Naiem Ur Rahman; Md. Nazmul Hossain Maruf Green University of Bangladesh
204	Performance Analysis of a Modified Three Phase Symmetric Five Level Inverter for Renewable Energy Applications Author: Sourav Barua	Sourav Barua; Tareq Aziz Ahsanullah University of Science and Technology (AUST)
205	Design and Implementation of Quadratic Boost Converter for Low Power Applications Author: Vijay Kumar Gupta	Vijay Kumar Gupta; Ghanshyam Verma; BIPIN CHANDRA MANDI International Institute of Information Technology, Naya Raipur
218	Performance Improvement of EV charger using AI based controllers Author: Divya S	Divya S CUSAT
328	Analysis of Non-Isolated Dual Output Tristate Converter for Low Voltage DC Bus Author: Saurabh Mishra	Saurabh Mishra IIT Delhi and DTU Delhi  Raunak Karan; Mayank Kumar Delhi Technological University, Delhi
252	A Novel Non-Isolated High-Gain Boost DC- DC Converter with Single Switch and Minimum Component Count Author: Prajof P	Prajof P; Sunil Mandal National Institute of Technology Surathkal
215	Maximum power tracking using machine learning technique in hybrid solar-wind renewable energy power generation Author: Ramakrishna B	Ramakrishna B; Venkata Gopala Krishna Rao C; Harshavardhan L; Raghu Krishna V Maturi Venkata Subba Rao (MVSR) Engineering College, Hyderabad

## SCHEDULE-IN-DETAIL (DAY-2)

133	Peak Power Extraction from a PV System for Various DC and AC Loads Author: Himanshu Sahu	Himanshu Sahu Shiv Nadar Institution of Eminence Deemed to be University, Delhi NCR Shashank Kumar IIT Guwahati Papul Changmai NIT Arunachal Pradesh Dr. Sisir Kumar Nayak IIT Guwahati
22	Intelligent network management with the presence of batteries and electric vehicle charging stations and considering charging and discharging Author: Morteza Azimi Nasab	Morteza Azimi Nasab; Mohammad Zand University of South-Eastern Norway Mohsen Hatami; Mohammadhossein Abedinzadeh Binghamton University Sanjeevikumar Padmanaban CTiF Global Capsule, Dept. of Business Development and Technology Ali Fozooni University of Washington

### Technical Session-14 (PS-3)-Offline

**Session Chair:** 1. Dr. Shailendra Kumar, IIT Bhilai  
2. Dr. Monalisa Biswal, NIT Raipur

**Room No: Sir Visvesvaraya Hall (E-Hall)**

**Timing:** 01:30 PM – 04:00 PM

Paper ID	Paper Title and Corresponding Author	Authors
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## SCHEDULE-IN-DETAIL (DAY-2)

121	<p>Optimal Operation of Microgrid with EV Charging Station, Load Shifting, and DSTATCOM Author: YASMEENA</p>	<p><b>Yasmeena</b> SRM UNIVERSITY, Andhra Pradesh</p>
139	<p>Identification of Erroneous Line Parameter in Three-Phase Distribution System Author: Mohd Tauhid Alam</p>	<p><b>Mohd Tauhid Alam</b> Indian Institute of Technology Roorkee</p>
174	<p>Protection Coordination Impact on Reliability of Distribution Systems With Distributed Energy Resources Author: Rani Kumari</p>	<p><b>Rani Kumari</b> IIT (ISM) Dhanbad</p>
198	<p>Day Ahead Load Demand Forecasting based on LSTM Machine Learning Model Author: RASHMI BARETH</p>	<p><b>Rashmi Bareth</b> National Institute of Technology Raipur</p>
315	<p>Distance and User-defined Overcurrent Relay Coordination for IEEE-14 Bus Test System Author: Raghvendra Tiwari</p>	<p><b>Raghvendra Tiwari; Somendra Banerjee; Dr. Tarun Shrivastava; Sachin Anil Karare; Manu Kumar Singh; Dr. Rushikesh Bankar</b> G H Raisoni Institute of Engineering and Technology, Nagpur</p>
317	<p>Hybrid Carrier Frequency Based Modulation Strategy to Improve Efficiency of Voltage Source Inverter Author: Yu Than</p>	<p><b>Yu Than</b> Kyoto University of Advance Science</p>
329	<p>ECG Signal Denoising Using Sparrow Search Algorithm Author: Shaivi Dewangan</p>	<p><b>Shaivi Dewangan; Shubham Yadav; Suman Kumar Saha</b> National Institute of Technology, Raipur</p>
171	<p>Investigating the Role of Data Preprocessing for Load Demand Forecasters in Smart Household Applications Author: Dipanshu Naware</p>	<p><b>Dipanshu Naware</b> EED, NIT Raipur</p>
107	<p>AI-Powered Trash Classification System for Lakes and Water Bodies Using Transfer Learning Author: Sumit Kundu</p>	<p><b>Sumit Kundu</b> Amrita Vishwa Vidyapeetham</p>
143	<p>Robust and Explainable AI: Auto-Augment with Label Preservation and Saliency Parameters Author: Rohit Doriya</p>	<p><b>Rohit Doriya</b> IIT Jodhpur <b>Jaykumar Suraj Lachure; Rajesh Doriya</b> NIT Raipur</p>
283	<p>Convolution Neural Network for Fault Detection and Classification in Hybrid</p>	<p><b>Ankita Nag</b> Intel Corporation</p>

## SCHEDULE-IN-DETAIL (DAY-2)

	Overhead-Underground Distribution System <b>Author:</b> Ankita Nag	Anamika Yadav; Shubhrata Gupta National Institute of Technology Raipur
297	A Stealth False Data Attack on State Estimation with Minimal Network Information <b>Author:</b> Jagendra Kumar Narang	Jagendra Kumar Narang; Baidyanath Bag National Institute of Technology Raipur
302	Detection of DC faults in ring main DC microgrid system using naïve bayes classifier <b>Author:</b> Ebha Koley	Ebha Koley; Aditi Barge National Institute of Technology Raipur

## SCHEDULE-IN-DETAIL (DAY-3)

**DAY-3: 20<sup>TH</sup> JANUARY 2024 (\* All timings are in IST)**

TIME	PROGRAM
10:00 AM – 11:00 AM	Keynote Session-4 (Hybrid Mode)
11:00 AM – 11:15 AM	BREAK
11:15 AM – 01:45 PM	Technical Session-15(Online)
01:45 PM – 03:30PM	LUNCH
03:30 PM – 05:00 PM	Valedictory Function (Hybrid Mode)

**Keynote Session-4: Venue: Sir Visvesvaraya Hall (E-Hall) for offline**

**Meeting Link:**

<https://us06web.zoom.us/j/83157753688?pwd=oaJzC2yWVetrwNatgB5UmDMpsWTQyK.1>

**Resource Person:**



**Shri M.K. Badapanda**  
Scientific Officer (H),  
RRCAT, Indore  
India

**Valedictory Function:**

**Venue: Sir Visvesvaraya Hall (E-Hall) for offline**

**Meeting Link:**

<https://us06web.zoom.us/j/81827439210?pwd=7ceFd4HSaHR9nya6AVELS9chziOxgY.1>

## TECHNICAL SESSION DETAILS

### **Technical Session-15 - (IC-2)-Online**

**Session Chair:** 1. Dr. Bikesh Kumar Singh, NIT Raipur  
2. Dr. Hari Priya Vemuganti, NIT Raipur

**Session Link:**

<https://us06web.zoom.us/j/83107385787?pwd=h8qrvPELcDOen0Masejp7pFQj3Yzw8.1>

**(Session will be hosted in room no: D2, Virtual Classroom)**

**Timing:** 11:15 AM – 01:45 PM

Paper ID	Paper Title and Corresponding Author	Authors
79	A Novel AMB Laser Welding of Copper Eyelets onto Aluminium Busbars <b>Author:</b> Vigneswaran P	Vigneswaran P Mahindra Last Mile mobility
92	Non-singular Fast Terminal Sliding Mode Control for Crack Sealing Manipulator <b>Author:</b> Santosh Kumar	Santosh Kumar Dept. of Mechanical Engineering Indian Institute of Technology Guwahati Assam, India
124	Optimum Tuning of 1&2-dof TID-F Controllers for a MAGLEV System with Experimental Validation <b>Author:</b> Soham Dey	Soham Dey Dr. B.C. Roy Engineering College, Durgapur
132	Cost-efficient Smart Home Security System Based On NodeMCU And Arduino With IoT <b>Author:</b> Arnab Chatterjee	Arnab Chatterjee Jadavpur University
327	Fault Detection and Analysis for a Mobile Robot using Radial Basis Function Network. <b>Author:</b> Tesfaye Deme Tolossa	Tesfaye Deme Tolossa Indian Institute of Technology Roorkee, IITR
331	Prediction of Bevel-Tip Needle Deflection using CART based Decision Tree <b>Author:</b> BULBUL BEHERA	Bulbul Behara Indian Institute of Technology Roorkee, IITR

## SCHEDULE-IN-DETAIL (DAY-3)

333	Trajectory Tracking Controller Design for Percutaneous Interventional Procedures <b>Author:</b> Kaushik Halder	Kaushik Halder Indian Institute of Technology Roorkee, IITR
93	Intelligent Adaptive Control of Safer Cokatar Magnetically Growing Rod-like Marmara University System <b>Author:</b> Safer Cokatar	Safer Cokatar Marmara University
145	To Design Sigmoid Based PID controller for Twin Rotor MIMO system <b>Author:</b> Lakshmi B Dutta	Lakshmi B Dutta North Bengal University