



Industry Connect

Bi-monthly Newsletter of Corporate Relations – IIT Delhi



IIT Delhi and NRLDC Partner to Enhance Grid Reliability and Renewable Energy Integration

IIT Delhi has partnered with the Northern Regional Load Dispatch Centre (NRLDC), under Grid Controller of India Limited (Grid-India), to develop advanced solutions for grid stability and renewable energy integration. NRLDC, one of five Regional Load Dispatch Centres (RLDCs) managed by Grid-India, ensures the stability and reliability of the Northern Region's power system. It oversees grid operations across multiple states, optimizing electricity distribution through real-time monitoring, load balancing, and coordination with State Load Dispatch Centres (SLDCs). This collaboration will test and validate IBR-based black start operations through hardware simulations and real-world scenarios. A key aspect of this research is managing the transition between grid-forming and grid-following inverter modes to ensure stable voltage and frequency during power restoration, minimizing disruptions.

The project will be led by Prof. Avanish Tripathi, supported by Prof. Rabindra Mohanty, both from IIT Delhi's Department of Energy Science and Engineering.



IIT Delhi, IndiGo Sign MoU to Drive Innovation and Create Impactful Solutions for Airline Industry

IIT Delhi and IndiGo, part of InterGlobe Aviation Limited, have signed a strategic Memorandum of Understanding (MoU) to drive innovation and create impactful solutions for the airline industry. This partnership will focus on leveraging advanced research to enhance customer experiences and optimise operational efficiency. The collaboration aims to provide IndiGo's passengers with personalised recommendations for flight deals and ancillary services such as travel insurance, meal packages, and hotel bookings, based on their travel history, demographic profiles, or geo-IP addresses. Simultaneously, the IIT Delhi team will work with IndiGo to develop advanced disruption management strategies to handle unexpected changes in flight and crew schedules. By integrating data from various modules—such as fleet recovery, crew recovery, and revenue estimation—the goal is to minimise the impact on passengers and crew while maximizing operational efficiency and revenue.



FUJITSU IIT Delhi and Fujitsu Limited Join Hands for Groundbreaking Research

We are thrilled to announce the collaboration between IIT Delhi and Fujitsu Limited. This partnership represents a significant step forward in advancing cutting-edge research in artificial intelligence and interpretable machine learning.

The research project will be led by Prof. Sayan Ranu from the Department of Computer Science and Engineering at IIT Delhi, whose expertise is pivotal in driving innovation in this domain.

Together, we aim to explore innovative solutions that bridge the gap between advanced AI models and human understanding, paving the way for impactful applications.



**Dentsply
Sirona**

Dentsply India Private Limited extends CSR grants to IIT Delhi

Dentsply Sirona India has renewed its CSR contribution to IIT Delhi to support the development of a highly precise simulator designed for studying patient-specific dental implants. This project, aimed at advancing medical education, is being led by Dr. Arnab Chanda from the Centre for Biomedical Engineering at IIT Delhi. We are thankful for Dentsply Sirona's continued support to IIT Delhi.

Citadel Securities Continues Its CSR Support for IIT Delhi

Citadel Securities has continued its CSR contribution to IIT Delhi this year to support the Advanced Manufacturing Laboratory-I at the Department of Mechanical Engineering. Led by Dr. Sagar Sarkar from the Department of Mechanical Engineering, IIT Delhi, this initiative aims to enhance the lab's research and development infrastructure by establishing a shared basic characterization facility accessible to all students and faculty. The project will also provide hands-on training through workshops, integrate specialized classes to support students, and facilitate collaborative projects with industry groups and academic institutions.

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