भारतीय प्रौद्योगिकी संस्थान हैदराबाद
कैंडी - ५०२ २८५, सांगारेड्डी, तेलंगाण, भारत
फोन : (०४०) २३०१ ६०३३; फैक्स : (०४०) ६००३ / ३२

Indian Institute of Technology Hyderabad
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LETTER OF COLLABORATION

Between

Department of Electrical Engineering, Indian Institute of Technology Hyderabad

and

Mahatma Gandhi Institute of Technology (Autonomous) – Department of EEE

Date: 27-10-2025

This Letter of Collaboration is established between the **Department of Electrical Engineering, Indian Institute of Technology Hyderabad (IITH–EE)** and the **Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology (Autonomous), Hyderabad (MGIT–EEE)**.

1. Purpose

The purpose of this Letter of Collaboration is to formally acknowledge the ongoing academic and research engagements between IITH–EE and MGIT–EEE, and to outline areas of continued and future cooperation. Several of these engagements have been facilitated through technical interactions involving **Power Sense Private Limited**, an IIT Hyderabad Start-up incubated within the Department of Electrical Engineering.

2. Background and Past Collaboration

Over the past year, the association between IITH–EE and MGIT–EEE has grown steadily, supported by faculty interaction, student engagement, and applied research activities. Notable collaborative efforts include:

a. Student Project Engagement

Nine B.Tech VII Semester students from MGIT–EEE have been carrying out their major project in the domain of real-time power quality analytics and micro-grid monitoring and management. This work has benefited from technical exposure to the tools and systems developed by Power Sense Pvt. Ltd.

b. Pilot Deployment of CEMMS

A pilot installation of the Campus Energy Monitoring and Management System (CEMMS), developed by the IITH-based start-up Power Sense Pvt. Ltd., was completed at MGIT on 24-02-2025. This deployment has supported experiential learning and data-driven research activities.

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c. Joint Research and Publication

A joint research paper titled *"Short-Term Load Forecasting for Energy and Cost Savings: A Case Study"* has been accepted for presentation and publication at the International Conference on Power Systems (ICPS-2025), reflecting a productive research outcome of the partnership.

d. Campus-Wide Deployment of CEMMS

Following the successful pilot, MGIT procured and deployed the full CEMMS solution (Purchase Order: MGIT/PSD/EEE/129/2025-26 dated 16-10-2025). The system is now operational and supporting ongoing analytics and energy management initiatives. These activities demonstrate significant mutual benefit and effective academic-industry-research synergy.

3. Areas of Future Collaboration

IITH–EE and MGIT–EEE agree to continue and expand cooperation in the following domains:

a. Student Projects, Internships, and Training

Support for project work, internships, and practical exposure in smart energy systems, power quality analytics, and micro-grid technologies.

b. Faculty Development and Technical Interaction

Joint organisation of faculty development programs, thematic workshops, and interactive sessions focusing on emerging technologies and data-driven energy systems.

c. Collaborative Research and Publications

Development of collaborative research proposals, joint authorship of papers, and cooperative participation in conferences and academic forums.

d. Technical Workshops and Events

Conduct of workshops, seminars, and hands-on sessions for students and faculty to promote innovation and skill development.

e. Support for Sustainable Energy Management

Utilisation of CEMMS and related analytical tools for research-led campus energy monitoring and sustainability efforts at MGIT, with continued academic guidance from IITH–EE.

4. Nature of Collaboration

This Letter of Collaboration records mutual academic intent between IITH–EE and MGIT–EEE. It is non-binding and does not create financial or legal obligations. Activities under this collaboration will be undertaken based on mutual interest and availability of resources.

5. Duration

This Letter of Collaboration is valid for a period of three years from the date of signing and may be extended upon mutual agreement.

6. Points of Contact

Both institutions will designate coordinators to plan, monitor, and review collaborative activities under this framework.

For Indian Institute of Technology Hyderabad
Department of Electrical Engineering

Dr. Pradeep Kumar Yemula
Associate Professor, Department of Electrical Engineering
Indian Institute of Technology Hyderabad

Signature: Y Pradeep
Date: 27-10-2025

For Mahatma Gandhi Institute of Technology (Autonomous)
Department of Electrical and Electronics Engineering

Dr. P. Ram Kishore Kumar Reddy
Professor & Head, Department of EEE, MGIT

Signature: P. Kareddy
Date: 27-10-2025

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