Three Days Faculty Development Program on "Powering the Future: A Journey Through the Energy Transition" 27<sup>th</sup> - 29<sup>th</sup> March 2025 Registration Form

Name:

**Designation:** 

**Department:** 

**College:** 

Address:

WhatsApp / Mobile No:

E-Mail:

Category: Academic / Industry / Others

**UPI Transaction Number:** 

**Signature of the Participant:** 

Date: \_\_\_\_\_ Place: \_\_\_\_\_

Signature of the Head of the Institution with Seal <u>Registration Link</u> https://forms.gle/HiReg4EgXbAsRpeq9



Registration FeesFor Faculty: ₹ 300For PG Students : ₹ 200

Payment Link: 9945577364@ybl



#### Note:

Registration is limited to 40 participants

Accommodation will be provided upon prior request

**<u>Chief Patrons</u>** 

**Dr. Shamanur Shivashankarappa** Secretary, BEA, MLA South Constituency, Davanagere **Sri S. S. Mallikarjuna** 

Minister of Mines & Geology and Horticulture in Government of Karnataka, Joint Secretary, BEA

**Dr. Prabha Mallikarjuna,** Member of Parliament, Davanagere Member, BEA

**Patrons** Sri Athani S. Veeranna Member, BEA Sri. A. S. Niranjan Member, BEA Dr. H. B. Aravind Principal, BIET **Prof. Y. Vrushabhendrappa** Director, BIET

Chairman Dr. M. S. Nagaraj Prof. & Head, Dept. of Electrical & Electronics Engineering, BIET

# Conveners

Dr. Basavarajappa S. R. Associate Professor Dr. Manjunatha H. M. Assistant Professor Mr. T. S. Karibasavaraju Assistant Professor

#### **Organizing Coordinators**

Dr. Anjaneya L. H. Dr. G. M. Shivakumaraswamy Mrs. Shilpa S. K. Mrs. Sowmya Anand Mr. Prashanth Kumar H. K. Mr. Arun Kumar P.

Bapuji Educational Association (R.)



Bapuji Institute of Engineering & Technology, Davanagere-577004

An Autonomous Institute Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka.

# Three Days Faculty Development Program

on "Powering the Future: A Journey Through the Energy Transition"

## 27<sup>th</sup> - 29<sup>th</sup> March 2025



Organized by Department of Electrical & Electronics Engineering

in association with The Institution of Engineers (India) Davanagere Local Centre and The Indian Society for Technical Education Student Chapter

## About the Institution

Bapuji Institute of Engineering and Technology (BIET), one of Karnataka's top ten self-financing engineering institutions, offers high-quality education to produce skilled engineers and technocrats. Spanning 63 acres, the campus provides state-of-the-art infrastructure for academic and extracurricular excellence. BIET offers 13 undergraduate and 5 postgraduate programs, along with 14 VTU-recognized research centers. Approved by AlCTE, New Delhi, recognized under UGC sections 2f & 12(b), the institute emphasizes industry collaboration through skill training, industrial visits, expert lectures, and advanced learning methods like smart boards and NPTEL courses. The Industry-Institute Partnership Cell (IIPC) fosters collaboration, consultancy, and entrepreneurship. BIET has received research funding from AICTE, DST, DBT, and other agencies. Accredited by NBA and NAAC with an 'A' grade in 2017 and 2023, BIET continues to uphold academic excellence and industry relevance.

#### Vision of the Institute

To be a center of excellence recognized nationally and internationally, in distinctive areas of engineering education and research, based on a culture of innovation and invention.

#### **Mission of the Institute**

BIET contributes to the growth and development of its students by imparting a broad-based engineering education and empowering them to be successful in their chosen field by inculcating in them positive approach, leadership qualities and ethical values.

### **About the Department**

The Department of Electrical & Electronics Engineering at BIET was established in 1979 with an initial intake of 40 students, later increased to 60 in 2009-10. Over 45 years, approximately 1900 students have graduated. The department has a blend of experienced and young faculty, averaging 13 years of experience. Accredited four times by the National Board of Accreditation (NBA) and recognized by The Institution of Engineers (India), the department has been a VTU-recognized research center since 2009, offering M. Sc (Engg.) and Ph.D. programs. Research areas include electric power systems, renewable energy, and artificial intelligence.

### Vision of the Department

To train globally competent quality students in Electrical Engineering through excellent academic inputs, innovative ideas and team work.

### **Mission of the Department**

- To enhance the quality of life of students through continuous learning and state-of-the-art technical education.
- > To meet the long term needs of the industry & society.
- > To inculcate leadership qualities & ethical values.
- > To serve the community for the socioeconomic developments.

## About the FDP

This course provides a thorough exploration of the global shift from fossil fuels to clean and renewable energy sources. It covers the historical development of energy systems, helping participants understand the significance of the current transition, which focuses on reducing carbon emissions and fighting climate change. The course examines the technological aspects of energy transitions, including how technological advancements have influenced energy systems and the economic factors that either facilitate or hinder these shifts. A primary focus is on the ongoing transition to a low-carbon energy future, exploring the role of clean energy sources like solar, wind, hydropower and nuclear energy. It also addresses the challenges of integrating these variable energy sources into existing systems. Additionally, the course delves into the growing importance of electricity, energy storage technologies, smart grids and digital tools, which optimize energy generation and distribution while improving the overall efficiency and resilience of energy systems. It also covers the transportation and dynamics of energy flow through various infrastructures, including electricity, natural gas and hydrogen. The course highlights the challenges posed by variable renewable energy sources, such as intermittency in solar and wind power and the solutions being developed, including energy storage and grid management technologies. Finally, the course points to emerging career opportunities in the clean energy sector, such as energy management, technology development etc. By the end of the course, participants will be equipped with both technical knowledge and strategic insights to contribute to the ongoing energy transition toward a netzero future.

## **Objectives of FDP**

- To provide opportunities to faculty members, research scholars and postgraduate students to enrich their knowledge about the significance of recent technology and current research opportunities in their working domains.
- ➢ To promote R and D activities in Power System Operation and Control using AI techniques.

### **Resource Person:**



**Dr. Balaram K** Former Director General of National Institute of Wind Energy (NIWE) under Ministry of New and Renewable Energy (MNRE), Government of India

## **Registration:**

**Target Audience:** Faculty Members, Research Scholars and PG Students from the Electrical & Electronics Engineering, Mechanical Engineering and Industry Persons.

Last Date for Registration: 24/03/2025

Certificate will be issued for all the registered participants who attend all the sessions of FDP.

### Address for Communication: Email Id:

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