

## About FDP

Today, everyone is focus on internet of things (IOT) and artificial intelligence (AI). Statistics shown a huge data will be grown and most of devices to be connected on internet by 2025. IOT is the concept of everyday object from machine to wearable devices using built in sensors to gather data and take action on the data across a network and AI eliminates human intervention wherever necessary and possible. This FDP is aimed at giving live training & knowledge to the faculty members on various aspects of IOT & AI. Industry 4.0 refers to a new phase in the Industrial Revolution that focuses heavily on interconnectivity, automation, machine learning, and real-time data. Industry 4.0, also sometimes referred to as IOT or smart manufacturing, marries physical production and operations with smart digital technology, machine learning, and big data to create a more holistic and better-connected ecosystem for companies that focus on manufacturing and supply chain management.



## Expected outcomes

The course will be extremely beneficial for the faculty, researchers and professionals from diverse discipline.

- ★ Understanding the nature and development of Artificial Intelligence in promoting transformative manufacturing.
- ★ FDP introduces fundamentals of IOT, different industry 4.0 Models, applications and research outcomes addressing the theoretical and practical aspects on "Artificial Intelligence and Industry 4.0"
- ★ An opportunity to explore the implications of Industry 4.0 in a globally connected supply chain.
- ★ Implementation of IOT and automation for conventional manufacturing.
- ★ Generate realistic and workable ideas for Industry 4.0.



## About us

Baba Farid Group of Institutions, incepted in the year 1994 under the guidance of Baba Farid Vidyak Society, is one of the prominent education hubs in India. Founded, led and managed by a reputed educationist Dr. Gurmeet Singh Dhaliwal (Chairman), the institution is delivering the academic excellence with complete panache. Being the Leading Educational Institute of the Region, it is a preferred destination of Indian and international learners to attain their career goals. The Institute offers more than 50 Regular Courses & has a strength of more than 10,000 students not only from State of Punjab, But also from Different parts of country.

**Baba Farid College of Engineering and Technology** is managed by Baba Farid Vidyak Society founded in 1993 under the kind patronage of prominent educationists of Malwa Region of the State of Punjab. The society aims to provide quality education to prepare the young minds to face the competitive world on all fronts. The institute offers a host of hi-tech ultra-modern facilities to ensure quality education for its students. The institute is being managed efficiently by its Chairman Dr. Gurmeet Singh Dhaliwal, an eminent educationist and Bharat Jyoti Awardee. As a Premiere Educational Institute, Baba Farid College of Engineering & Technology emphasizes on imparting practical skills to the students to make them ready to take up the challenges in this ever-evolving field of digitalized technical education. With the support of up to date labs, excellent infrastructure, and qualified faculty, the college is committed to provide quality education. The college always takes its best foot forward for motivating its students towards research by organizing International Conferences, Seminars and Guest Lectures in the campus. The college runs under-graduate courses of Bachelor of Technology in the disciplines of Computer Science & Engineering, Electronics & Communication Engineering, Civil Engineering, Mechanical Engineering & Electrical Engineering & Post-graduate course of Master of Technology in CSE.

## About Department

The Department of Electrical Engineering, BFCET was established in 2010 under the aegis of Baba Group of Institutions. The motive of the department is to impart quality education in the field of Electrical Engineering with innovative teaching methodology with the blend of traditional practices. Academic Curriculum is a perfect balance between theoretical concepts and practical aspects. The department always focuses on Hands-on practice , projects, field trips and industry-academic interaction together to make our students highly sought-after graduation. Along with Academic, the students here are encouraged to engage themself in extra-curricular and co-curricular activities which are essential for personality development, nurturing of team spirit and development of professional ethics. Faculty members of the department maintain their links with the various installation & commissioning agencies for consultancy activities. Electrical Engineering program at Baba Farid College of Engineering and Technology is excellently suited to meet the ever-changing requirements of engineers with courses that combine the Electrical Machines, Power System, Power Plant Engineering, Power System Analysis and computational techniques with engineering. In addition, undergraduates are exposed to the concepts of design including the application of (ETAP Software) techniques. The program also considers the need for real-world exercise for which throughout the program time to time entails Industrial visits, live projects, and a host of hand- on-practice based assignments that give students an opportunity to apply their theoretical concept & knowledge to problems faced on the ground.

**AICTE-MRSPTU**

**Sponsored**

**Six days Online**

**Faculty Development Programme (FDP)**

on

**IOT & Artificial Intelligence in Industry 4.0**

**17<sup>th</sup>-22<sup>th</sup> January, 2022**



being organized by

**Department of Electrical Engineering**

**BABA FARID COLLEGE  
OF ENGINEERING AND TECHNOLOGY**

**Bathinda - 151001 (Punjab)**



## Content of the Programme

- ★ Dynamic Implementation of IOT and AI Approaches for Research
- ★ Open Platforms for IOT and Smart Applications
- ★ Industrial Automation using IOT Frameworks
- ★ Free and Open-Source Frameworks for IOT and Industry 4.0
- ★ Challenges and opportunities in IOT.
- ★ To introduce fundamental of IOT and AI with its applications
- ★ The program would help the participant to understand the key concepts and advance understanding on IOT and AI
- ★ To explore various research opportunities and challenges in the field of IOT, AI and its applications.
- ★ At the end of the FDP, the participant is able to understand the technologies for future application.



**Patron**  
**Dr. Gurmeet Singh Dhaliwal**  
(Chairman BFGI)

**Chairperson**  
**Dr. Jayoti Bansal**  
(Principal)

**Co-Chairperson**  
**Dr. Tejinderpal Singh**  
Sarao (Dean R&D)

**Programme Coordinator**  
**Er. Harsimran Singh**  
(HoD, Electrical Engineering)

**Programme Co-coordinators**  
**Er. Hardeep Singh**  
(Dean of student welfare)  
**Er. Abhi Garg**  
(Assistant Professor, Electrical Engineering)  
**Er. Satvir Singh**  
(Assistant Professor, Electrical Engineering)

**Organizing Committee**  
Er Tanu  
Dr Nimisha Singh  
Er Pushpinder Sharma  
Er Balwant Singh  
Er Harkamaldeep Kaur  
Er Shilpy Goyal  
Er Gurpreet Kaur  
Er Rajpreet Kaur Er Rishav  
Er Manpreet Kaur  
Er Sandeep Singh

## Resource Persons

Eminent personalities with rich experience and standing in their respective domain from reputed Institutions like IIT/NIT/NITTTR/TIET/ Central University and Industries are resource persons in this programme.

## Who can attend?

The program is open to all faculty members and Research Scholars of AICTE/UGC affiliated institutes/ Universities. Maximum 100 participants are allowed to attend the programme.

## Registration

There is no registration fee. Interested persons can attend the Programme by completing the registration through the following link or scan QR code.

## Registration QR Code



## Registration Link: -

<https://forms.gle/wR4DRuyeos7xGzwk9>

## Join WhatsApp Group

<https://chat.whatsapp.com/I4ozK6CQCnhCV94YellZ1u>

## Important Dates

Last Date for Registration : 10<sup>th</sup> January 2022

Confirmation of Participation : 15<sup>th</sup> January 2022

## Test & Certification

An online test shall be conducted by coordinator at the end of the program. Certificates shall be awarded to the participants with 80% attendance and with a score of minimum 60% marks in online test to be conducted on the last day of the program.

## Duration

The Programme will be conducted in **online mode** from 17th-22th Jan, 2022 having a total of 16 sessions each of 90 minutes duration

## Contact Persons

**Programme Coordinator:**  
**Er. Harsimran Singh**  
+91-95011-15491

**Programme Co-coordinator:**  
**Er Abhi Garg**  
+91-95011-15435  
**Er Satvir Singh**  
+91-95011-15446

Email: [hodee.bfcet@gmail.com](mailto:hodee.bfcet@gmail.com)  
Website: [www.bfcet.com](http://www.bfcet.com)

**BABA FARID COLLEGE  
OF ENGINEERING & TECHNOLOGY**

Bathinda (Punjab) -151001, [www.bfcet.com](http://www.bfcet.com)

