

AICTE TRAINING AND LEARNING (ATAL) ACADEMY

Sponsored

ONE WEEK FACULTY DEVELOPMENT PROGRAM

on

INDUSTRY 4.0: PAST AND PRESENT

Challenges and Opportunities in Industries and Academia

17th - 22nd November, 2025

REGISTRATION PROCESS

1. Visit: ATAL Portal - <https://atalacademy.aicte.gov.in/>
2. Sign up as a participant and complete your profile.
Navigate to
3. Go to FDPs Menu → ATAL Offline → November → Engineering & Management
4. Search for FDP Application No: 1743171184 or Baba Farid College of Engineering & Technology
5. Apply for the FDP titled Industry 4.0: Challenges and Opportunities in Industries and Academia
6. Upload the attached NOC while applying.

[Click here to download NOC Format](#)

REGISTRATION, ACCOMMODATION, & TA/DA

The program is open for faculty members research scholars of AICTE approved Institutions, PG scholars and industry people. There is 'NO REGISTRATION FEE' for the program. Participants will be short listed based on First-cum-First Serve and all the communications should be made to the coordinators. It is mandatory for sponsorship by the concerned authority of your college/ academy/ institute/ university. Certificates will be issued to those participants who will maintain at least 80% attendance and clear the test.

Online Registration is Mandatory

IMPORTANT DATES

Last date for receiving application	11 th November, 2025
Intimation to selected candidates	13 th November, 2025
Confirmation from candidates	15 th November, 2025

LOCATION

BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY

The NH- 754, Muktsar Road, Bathinda - 151001, Punjab, India

OBJECTIVE OF THE FDP

This topic aims to explore Industry 4.0: Past and Present, focusing on its technologies (IoT, AI, Big Data) and applications. It identifies challenges like cyber security risks, skill gaps, and integration issues while highlighting opportunities for efficiency, predictive maintenance, and data-driven decisions. Additionally, it emphasizes bridging the industry-academia gap by aligning education with industrial needs and proposing strategies for overcoming challenges through innovation, up skilling, and collaboration.

30+ YEARS OF PROUD LEGACY

NAAC GRADE A+ Accredited Institution (BFCEI)



BABA FARID GROUP OF INSTITUTIONS

Bathinda, Punjab (India) | www.babafaridgroup.edu.in

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DEPARTMENT OF MECHANICAL ENGINEERING

BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY, BATHINDA, PUNJAB

NAAC ACCREDITED WITH A+ GRADE

Website:

<https://www.bfcet.com/>



ATAL ACADEMY

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understand that there is a need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies.

ABOUT THE INSTITUTE

Baba Farid College of Engineering and Technology is managed by the Baba Farid Vidyak Society, founded in 1994 under the patronage of prominent educationists of the Malwa Region of the State of Punjab. The society aims to provide quality education to prepare 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 the digitalized transformation of technical education. The college always takes its best foot forward for motivating its students toward research by organizing International Conferences, Seminars, and Guest Lectures on its campus.

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering was established in 2008 and has since been committed to excellence in education, research, and innovation. The department offers a Bachelor of Technology (B.Tech.) program in Mechanical Engineering, affiliated with Maharaja Ranjit Singh Punjab Technical University (MRSPTU), Bathinda. With a team of highly qualified and experienced faculty members, the department ensures the delivery of quality education that aligns with the latest advancements in the field.

PROGRAM CONTENTS

- » Industry 4.0: Past and Present
- » Application of AI and ML in Industry 4.0
- » Deep Learning and Big Data in Industry 4.0
- » Robotics in Industry 4.0
- » Implementing Industry 4.0 in Education
- » Data Analytics and Industry 4.0
- » Future Trends and Challenges in Industry 4.0
- » Augmented Reality (AR) and Virtual Reality (VR) in Industry 4.0
- » Sustainability and Green Manufacturing in Industry 4.0
- » Additive Manufacturing in Industry 4.0

RESOURCE PERSONS

- » Prof. Harpreet Singh, IIT Ropar
- » Dr. Vijay Kumar Meena, Senior Principal Scientist, CSIR-CSIO Chandigarh
- » Dr. Gaurav Kumar, Director Magma Research Centre, Ambala
- » Dr. Ritesh Kumar, CSIR-CSIO Chandigarh
- » Prof. V.K. Garg, CUP Bathinda
- » Dr. Rishemjit Kaur, Principal Scientist, CSIR-CSIO Chandigarh
- » Dr. Balwinder Singh, Joint Director, C-DAC Mohali
- » Prof. Ashish Singla, TIET Patiala
- » Prof. Amandeep Kaur, CUP Bathinda

CONTACT DETAILS

- » Dr. Tejinder Pal Singh Sarao, 9501115438
- » Er. Kovid Sharma, 9501115489

CHIEF PATRON

- » Dr. Gurmeet Singh Dhaliwal
Chairman BFGI

PATRON

- » Dr. M.P. Poonia
Former Vice Chairman AICTE,
Campus Director, BFGI

PROGRAM CHAIR

- » Dr. Jyoti Bansal
Principal BFCET

COORDINATOR

- » Prof. Tejinder Pal Singh Sarao
Head MED
Mob.: 95011-15438
hodmebfcet@gmail.com

CO-COORDINATOR

- » Er. Kovid Sharma
Assistant Professor, MED
Mob.: 95011-15489
tpbfcet@gmail.com

ORGANIZING COMMITTEE

- » Dr. Kanwaljeet Kaur, Associate Professor
- » Dr. Harinder Singh, Associate Professor
- » Dr. Rahul Sen, Associate Professor
- » Dr. Parvinkal Singh, Associate Professor
- » Er. Gaurav Garg, Assistant Professor
- » Er. Gaurav Kumar, Assistant Professor
- » Er. Lakhwinder Singh, Assistant Professor
- » Er. Ram Singh, Lab Technician