भारतीय प्रौद्योगिकी संस्थान दिल्ली
Indian Institute of Technology Delhi

1st in India, in the QS World University Rankings: Southern Asia 2025

2nd in NIRF Ranking 2025 (Engineering)

Future Tech Leaders- AI & Industry 5.0

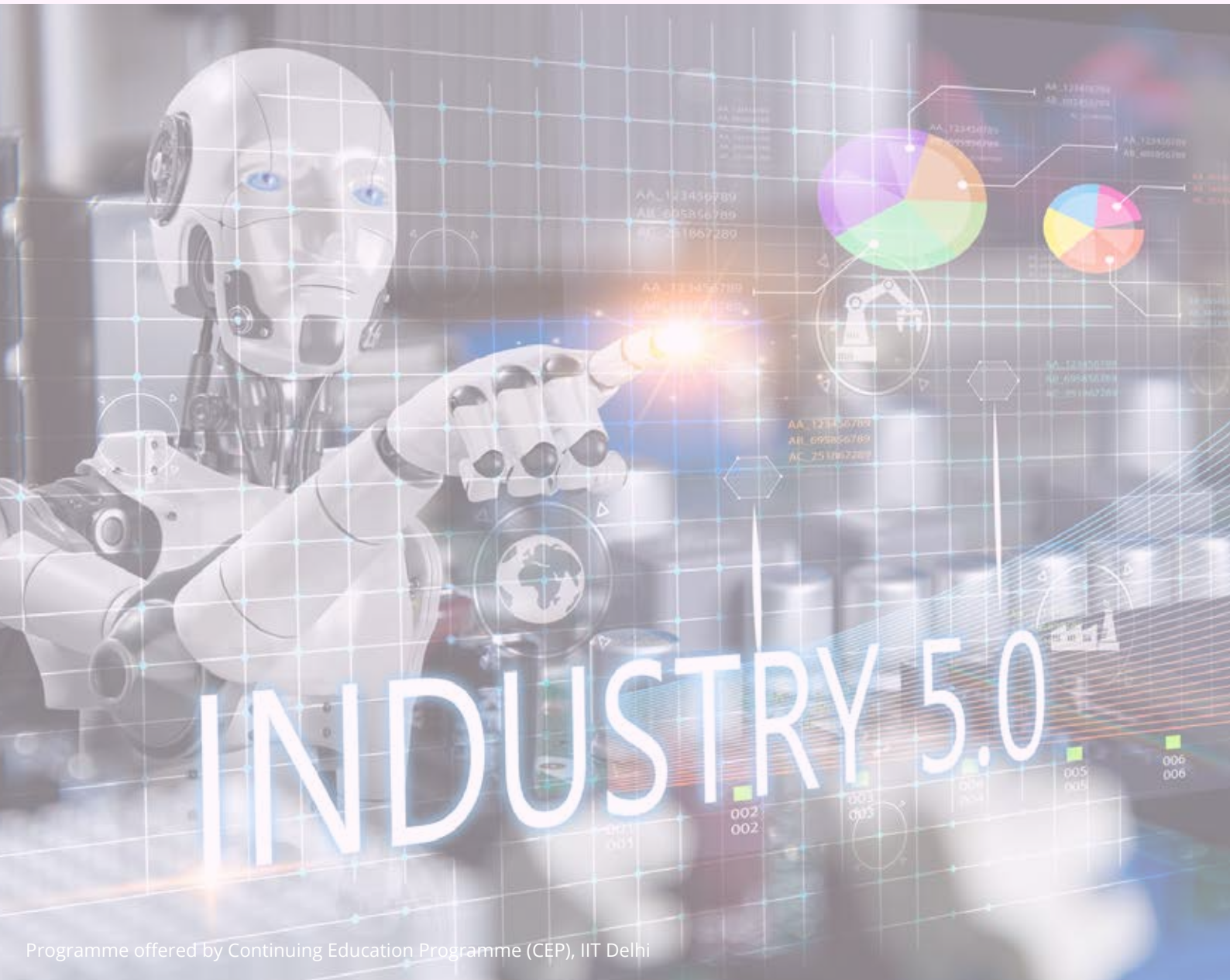
6 Months |Starts 28th March, 2026| Live Online Sessions

Programme offered by Continuing Education Programme (CEP), IIT Delhi

5 In-Campus Lab Sessions | **3 Days Campus Immersion**

Programme **Overview**

Step into the future with **IIT Delhi Future Tech Leaders – AI & Industry 5.0** a 6-month journey designed to build tomorrow's tech-savvy leaders. This cutting-edge course blends AI, IoT, Blockchain, 6G, AR/VR, and Digital Twins with strategic leadership, ethical innovation, and real-world applications. Through live sessions, hands-on labs, and an industry-aligned capstone project, you'll learn how to lead digital transformation and drive sustainable innovation across industries. Top it off with an optional 3-day campus immersion at IIT Delhi featuring workshops, peer networking, and live demos — and you've got a programme that's as future-ready as you are.



Bridging the Gap:
The Evolution of the Programme

In response to this growing demand, the IIT Delhi's Certificate Programme in Future Tech Leaders – AI & Industry 5.0 was conceived. It was designed not merely as a technology primer, but as a strategic leadership initiative—equipping professionals with the tools, frameworks, and mindset to lead transformation across sectors.

This evolution stems from two core observations:

1. Tech fluency is no longer optional—but business fluency in tech contexts is even rarer.
2. Traditional leadership programmes often fail to integrate emerging technologies with real-world strategy, ethics, and innovation ecosystems.

Recognizing this gap, the programme integrates foundational and advanced concepts in:

- Artificial Intelligence & Machine Learning
- Internet of Things (IoT)
- Blockchain
- 6G and next-gen connectivity
- Digital Twins
- AR/VR & immersive tech

Moreover, it extends beyond technology—offering insights into ethical leadership, sustainable innovation, human-machine collaboration, and future-focused strategy.

Programme **Highlights**

IIT Delhi Faculty-Led Learning:

Delivered by esteemed IIT Delhi faculty and domain experts, the programme brings academic excellence with real-world industry alignment.

Integrated Tech + Leadership Focus:

Uniquely designed to blend cutting-edge technologies (AI, Blockchain, IoT, 6G, AR/VR) with leadership, innovation, and strategic thinking for future-ready professionals.

Capstone Project & Strategic Roadmap:

Includes a hands-on capstone project and the creation of a personalized leadership roadmap to apply learnings in practical, high-impact settings.

Campus Immersion + Industry Interaction:

Experience on-campus engagement with faculty and peers, and interact with industry experts through panel discussions and live sessions.

Gain an e-certificate from CEP, IIT Delhi on successful completion.

State of arts lab

Tools To Turbo Charge Your Training

Programme offered by Continuing Education Programme (CEP), IIT Delhi

Programme **Curriculum**

Module 1 : Foundations of AI and Future Tech Leadership

- Evolution of Technology: From Industrial Revolutions to Future Tech
- AI as a Core Driver of Future Technologies
- Leadership in the Age of Digital Transformation
- Role of Emerging Technologies (IoT, Big Data, Blockchain, 6G
- Strategic Overview of Tech Leadership Trends

Learning Outcomes

- Understand the fundamental concepts of Artificial Intelligence and its role in digital transformation across industries.
- Gain insights into how AI drives efficiency, innovation, and competitive advantage in Industry 5.0 environments.

Module 2: Artificial Intelligence: Technology and Applications Inferential Analytics

- AI Fundamentals: Algorithms, Models, and Applications
- AI in Business Strategy and Decision-Making
- Machine Learning and Deep Learning for Leaders
- Generative AI and ChatGPT for Enterprise Innovation
- Leadership in the era of Industry 5.0: Augmenting human potential
- Case Studies: AI-Driven Business Transformations

Learning Outcomes

- Learn how to collect, analyze, and interpret data to inform high-impact business decisions.
- Develop skills in working with large datasets and using AI models for predictive and prescriptive analytics.

Programme **Curriculum**

Module 3: Core Future Technologies Beyond AI

- Internet of Things (IoT) and Edge Computing
- Big Data Analytics and Predictive Insights
- Blockchain for Transparency and Trust
- 6G Connectivity and Ultra-Low Latency Applications

Learning Outcomes

- Understand the foundational principles and applications of emerging technologies like IoT, Big Data, Blockchain, and 6G in business ecosystems.
- Learn to integrate these technologies to enhance operational workflows and enable intelligent decision-making.

Module 4: Leadership in Innovation and Human-Centric Design

- Design Thinking for Leaders: Driving Innovation
- Human-Machine Collaboration and HMI
- Ethical AI and Leadership Challenges
- Digital Twins, AR, and VR in Innovation
- Building Cross-Functional Collaborative Teams

Learning Outcomes

- Develop innovation-driven leadership skills through design thinking, digital twin integration, and human-centric approaches.
- Learn to foster cross-functional collaboration and manage human-machine interactions in the innovation process.

Programme **Curriculum**

Module 5: Strategic Implementation of Future Technologies

- AI in Automation and Operational Excellence
- AI-Driven Supply Chain Management
- Tech-Driven Workforce Transformation
- Applications of IoT and AI in Healthcare, Retail, and Finance
- Business Model Innovation with Emerging Technologies

Learning Outcomes

- Apply AI and automation tools for improving operational efficiency across verticals like supply chain, healthcare, and retail.
- Explore emerging technology use-cases in real-world business models to drive transformation and innovation.

Module 6: Security, Ethics, and Tech Leadership Challenges

- Cybersecurity Leadership in AI-Powered Systems
- Addressing Privacy and Ethical Dilemmas in AI
- Risk Management and Compliance in Future Tech Application

Learning Outcomes

- Understand cybersecurity risks, ethical challenges, and compliance frameworks associated with AI and future tech.
- Build leadership skills for responsible tech governance and decision-making in high-stakes environments.

Programme **Curriculum**

Module 7: Leadership Capstone and Strategic Roadmap

- Creating a Leadership Roadmap for Future Technologies
- The role of AI in driving personalization
- Understanding sustainability in the digital age
- Panel Discussion with Industry Experts
- Capstone Project Guidance and Presentations

Learning Outcomes

- Apply knowledge from across modules to develop a future-tech leadership roadmap aligned with innovation and sustainability goals.
- Deliver a capstone project showcasing strategic thinking, technology application, and industry alignment.

Learning **Outcomes**

- **Build Strong Foundations in AI and Future Technologies:**

  Gain a comprehensive understanding of Artificial Intelligence, its evolution, and how it integrates with core technologies such as IoT, Big Data, Blockchain, and 6G to power Industry 5.0 transformations.

- **Develop Strategic Tech Leadership Capabilities:**

  Learn how to lead digital transformation initiatives by aligning AI with business strategy, fostering innovation, and driving decision-making in technology-led organizations.

- **Master Human-Centric and Ethical Innovation:**

  Apply design thinking frameworks, ethical leadership principles, and collaborative approaches to manage human-machine interactions and develop scalable, responsible tech solutions.

- **Implement Future Tech in Real-World Scenarios:**

  Understand how to apply AI and emerging technologies in domains like supply chain, healthcare, finance, and retail to optimize processes and drive operational excellence.

- **Deliver Capstone Projects with Strategic Impact:**

  Synthesize cross-module learnings into a leadership roadmap and capstone project that showcases innovation, sustainability, and enterprise-ready problem solving, supported by expert faculty and industry leaders

A Quick Glance

Through The Programme

6 month
programme

130 +
Total Hours of Learning

70 Hours
Live Online Sessions

15 Hours
Capstone Project

3 Days
Campus Immersion

Eligibility Criteria: Bachelor's in Engineering/Technology (any discipline) with 2 years of work experience.

Live Online Lectures
Every Saturday and Sunday: 9AM to 11AM

Programme offered by Continuing Education Programme (CEP), IIT Delhi

A Quick Glance
Through The Programme

Admission Criteria
Selection based on application and personal interview

Evaluation:

- 60% - end of program MCQ based exam
- 30% - assignments & project
- 10% - attendance
- Candidates need to secure minimum 75% overall to be eligible for the certificate

Campus
Immersion:

- 3 Days Campus immersion
- Day 1: Advanced Workshop on Digital Twin & Robotics, Industry Visit and Smart Factory Tour
- Day 2: AR/VR Application Development & Testing, AI-Driven Quality Control Demonstrations
- Day 3: Final Project Presentations, Peer Review and Feedback, Memento Distribution Ceremony and Networking

From Idea to Impact:

Labs, Projects & Real-World Sprints

3-Day In-Campus Lab Sessions during Campus Immersion

Labs:

Lab Session 1:

- Introduction to Python for Data Science
- Data Exploration & Visualization Techniques
- Building Simple ML Models

Lab Session 2:

- Building an IoT System with Sensors and PLCs/CNC controllers
- Real-Time Data Collection on Edge Devices
- IoT Platform Hands-On

Lab Session 3:

- Developing a Basic Digital Twin Model
- Predictive Maintenance Simulation
- Data Visualization from Digital Twins

Lab Session 4:

- Setting up Big Data Pipelines
- Real-Time Analytics with Spark
- Cybersecurity for IIoT

Lab Session 5:

- Using AR/VR for Virtual Plant Tours
- Developing HMI Screens and Touchpoints

Case Studies:

Successful Industry 4.0 Implementations and Lessons Learned

Certification*

- Candidates who score at least 50% marks overall and have a minimum attendance of 75%, will receive a 'Certificate of Successful Completion'.
- Candidates who score less than 50% marks overall and have a minimum attendance of 40%, will receive a 'Certificate of Participation'.
- The organising department for this programme is the Department of Mechanical Engineering.

**Only e-Certificates will be issued by CEP, IIT Delhi for this programme.*

Career Support

Note: Career support facility is offered by TimesPro. IIT Delhi is not responsible for the same.

Personal Branding	• Introduction to networking platforms • Profile creation on professional networking • platforms like LinkedIn, Lunchclub, etc. • LinkedIn Profile Review • How to create personal brand presence on LinkedIn? • How to increase post engagement on LinkedIn? • Active networking
Business Communication	• Role and importance of effective communication as a leader • The art of providing constructive feedback for successful team • Importance of non-verbal communication • Key elements of executive body language
Job Search Strategy	**Resume Creation** • Importance of creating ATS friendly executive resume • Executive resume sections and structure • Tailoring resumes for different roles and industries • Write a powerful resume that stands out from the competition • Resume Review - Peer to peer review and Q&A • Get curated job opportunities from top job boards and TimesPro hiring partners delivered straight to your inbox through our Job Digest.
Interview Preparation	**Pre-interview Etiquettes** • Learn about top-down approach for interviews • Pre-interview tips and tricks **In-interview Etiquettes** • Create a self-elevator pitch • Understanding interviewer mindset • Interview grooming sessions and tips and tricks for interview **Post-interview Etiquettes** • Reflecting on interview experience and incorporating the feedback • Relationship building with the recruiter • Learn how to follow up on your job application

Note: Career support facility is offered by TimesPro. IIT Delhi is not responsible for the same.

Programme Coordinator

Prof. Sunil Jha

Professor
Department of Mechanical Engineering
Indian Institute of Technology Delhi

Prof. Sunil Jha is a distinguished professor in the Department of Mechanical Engineering at the Indian Institute of Technology (IIT) Delhi, where he has been a faculty member since 2007. With a career spanning over two decades in both academia and industry, Prof. Jha specializes in advanced manufacturing and automation technologies, including cutting-edge areas such as advanced machining and finishing processes, micro- and nanofinishing, and robotics.

Prof. Jha's academic journey began with a Ph.D. from IIT Kanpur, which laid the foundation for his research in manufacturing and mechatronics. Over the years, he has progressed from Assistant Professor (2007-2013) to Associate Professor (2013-2018), and now holds the position of Professor since 2018. Prior to his academic career, he gained valuable industrial experience as a Senior Engineer with Tata Motors, where he worked from 1998 to 2000.

Prof. Jha’s research interests include advanced and micro-nano finishing techniques, the application of smart fluids like magnetorheological (MR) fluids, and automation in manufacturing. His significant contributions to magnetorheological finishing are reflected in his widely cited publications, including studies on nano-finishing of materials like polycarbonate and silicon. Notable works include his papers on MR polishing fluid and its applications in high-precision finishing processes, published in prestigious journals such as the International Journal of Precision Technology and Materials and Manufacturing Processes.

Programme Faculty

Anup Wadhwa
Director, AIA

Anup Wadhwa, an alumnus of IIT Delhi 1975 batch Electrical Engineering and certified in Technology Management from IIM Ahmedabad, is a passionate advocate for industrial automation and smart manufacturing. With experience at BHEL, Rockwell Automation, and SAMTEL, he now leads the AIA and was instrumental in establishing the IITD-AIA Foundation for Smart Manufacturing. Anup actively promotes the Samarth Udyog Ecosystem and serves on national and UNIDO expert committees for Industry 4.0. Total Years of Experience : 50 Years

Aditya Chaudhary
Business Head, Hexagon India

Aditya Chaudhary heads the ETQ business unit at Hexagon India, a global leader in digital reality solutions. With over 22 years of experience in MES, QMS, IoT, and PLM, he has worked with industry giants like Tata Motors, Hyundai, and Vedanta. Previously with Rockwell Automation, Dassault Systèmes, and Ansys, Aditya holds a Mechanical Engineering degree from NIT Calicut and a strategic management certification from IIM Lucknow.

Kalyan Ram B
CEO, Indxo AI Pvt. Ltd.

Kalyan Ram is the co-founder and CEO of Indxo AI, specializing in AI-driven solutions for manufacturing. Since 2004, he has led innovation in control systems and smart manufacturing technologies. He also serves as Vice President of the International Association of Online Engineering (IAOE), Austria, and is known for his thought leadership in digital transformation and Industry 4.0. Kalyan has done Master of Science from Manipal University and has 21 years of rich experience.

Programme **Fee**

Particulars	Amount (in ₹)
Programme Fee	₹1,69,000
GST @ 18%	₹30,420
Total Fees	**₹1,99,420**

Note:

- All fees should be submitted in the IIT Delhi CEP account only, and the details will be shared post-selection.
- The receipt will be issued by the IIT Delhi CEP account for your records.
  Easy EMI options available.
- Loan and EMI options are services offered by TimesPro. IIT Delhi is not responsible for the same.
- The receipt will be issued by the IIT Delhi CEP Account for your records, which can be downloaded from the CEP Portal

Instalment **Schedule**

Instalment	Instalment Date	Amount (in ₹)
Application Fee*	To be paid at time of application	₹1,000
1st Instalment	To be paid in 5 days of offer-rollout	₹43,000
2nd Instalment	27th April, 2026	₹42,000
3rd Instalment	27th May, 2026	₹42,000
4th Instalment	26th June, 2026	₹42,000

Note:

- Application fee is non-refundable and non-transferable.
- The application fee will not be adjusted in the total programme fee.
- GST@18% will be applicable.

Programme **Timelines**

Milestone	Date
Last Date to Apply	27th March 2026
Programme Start Date	28th March 2026
Programme End Date	September 2026

Withdrawal & Refund from Programme

- Candidates can withdraw within 15 days from the programme start date. A total of 80% of the total fee received will be refunded. However, the applicable tax amount paid will not be refunded on the paid amount.
- Candidates withdrawing after 15 days from the start of the programme session will not be eligible for any refund.
- If you wish to withdraw from the programme, you must email cepaccounts@admin.iitd.ac.in and icare@timespro.com, stating your intent to withdraw. The refund, if applicable, will be processed within 30 working days from the date of receiving the withdrawal request.

Apply Now

भारतीय प्रौद्योगिकी संस्थान दिल्ली
Indian Institute of Technology Delhi

The Indian Institute of Technology Delhi (IIT Delhi) is one of the 5 initial IITs established for training, research, and development in science, engineering, and technology in India. Established as the College of Engineering in 1961, the Institute was later declared an Institution of National Importance under the "Institutes of Technology (Amendment) Act, 1963" and was renamed as "Indian Institute of Technology Delhi". It was then accorded the status of a Deemed University with powers to decide its own academic policy, conduct its own examinations, and award its own degrees. Since its inception, over 48,000 students have graduated from IIT Delhi in various disciplines including Engineering, Physical Sciences, Management, and Humanities & Social Sciences.

For more details, please visit: www.iitd.ac.in

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2nd
in NIRF India Engineering Rankings 2025

Continuing Education Programme (CEP)

Executive education is a vital need for companies to build a culture that promotes newer technologies and solutions and builds a workforce that stays abreast of the rapidly transforming needs in the technological, business, and regulatory landscape. Committed to the cause of making quality education accessible to all, IIT Delhi has launched Online Certificate Programmes under eVIDYA@IITD (ई-विद्या @IITD), enabling Virtual and Interactive learning for Driving Youth Advancement @IITD for Indian as well as international participants.

These outreach programmes offered by the Indian Institute of Technology Delhi (IIT Delhi) are designed to cater to the training and development needs of various organisations, industries, society, and individual participants at national and international levels with a vision to empower thousands of young learners by imparting high-quality Online e-Certificate Programmes in cutting-edge areas for their career advancement in different domains of engineering, technology, science, humanities, and management.

For more details, please visit: http://cepqip.iitd.ac.in

Services provided by:

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admissions@timesgroup.com
www.timespro.com

For any feedback, please write to:
CEP, IIT Delhi at
contactcep@admin.iitd.ac.in

Online Certificate Programmes are offered by the Indian Institute of Technology Delhi under the aegis of Continuing Education Programme (CEP) so that the Institute can realise its vision of serving as a valuable resource for industry and society, and fulfil its mission to develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.