Lead the Way in
Shaping the Future of Technology!

Chief Technology Officer Programme

Offered by CEP, IIT Delhi

10-12 Months | Live Online Lectures

Starts on: 9th August 2025

Transforming Tech for Digital Success

$5.61 trillion — Worldwide IT spending is expected to reach this amount in 2025, marking a 9.8% increase from 2024, driven by investments in AI, software, and IT services

*Gartner

US$19.9 billion India's IT and business services market is projected to reach US$ 19.93 billion by 2025

*IBEF

93% of all CEOs assert that technology is key to driving product and service innovation

*Deloitte and WSJ Intelligence Global Survey

84% of all CEOs say the ideal technology leader must have experience in leading change and transformation

*Deloitte and WSJ Intelligence Global Survey

43% of CTOs see digital privacy, cybersecurity and compliance as the most pressing tech challenges

*PwC

Transforming Tech for Digital Success

The global technology landscape is experiencing significant growth, with India's IT and business services market projected to reach US$19.93 billion by 2025. This expansion highlights the crucial role of technology in shaping economies and industries worldwide. However, as the digital realm expands, challenges such as digital privacy, cybersecurity, and compliance become more pronounced. PwC's findings indicate that 43% of Chief Technology Officers (CTOs) identify these issues as their most pressing concerns. Navigating these challenges is essential for organizations to fully leverage their technological investments, especially in an era where data security is paramount.

The IT and Business Process Management (BPM) market constitutes a substantial 9.3% of India's GDP, contributing significantly to the nation's economic fabric. India's role in the global outsourcing market is also noteworthy, accounting for 56% of the total market, as per a recent report on IBEF. In this landscape of growth and challenges, skilled CTOs with a blend of strategic vision, cybersecurity acumen, and compliance expertise are imperative. As the IT sector continues to be a linchpin in global economies, professionals equipped with comprehensive skills will play a pivotal role in driving innovation and steering organizations towards success.

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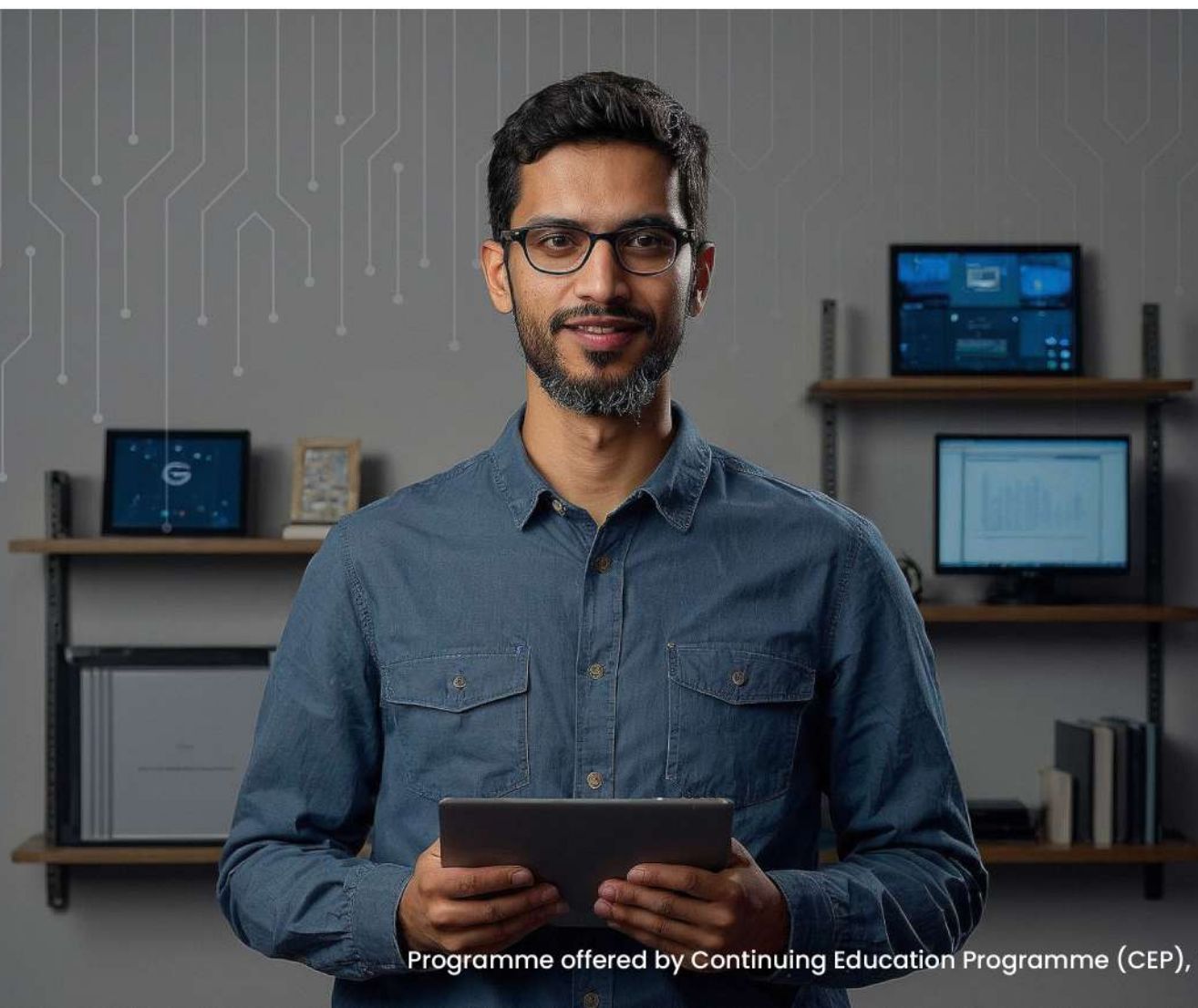
Key Challenges Faced by India's Technology Sector

Digital Privacy and Cybersecurity

Way Forward

- Navigate the complexities of ensuring digital privacy and cybersecurity in an increasingly interconnected world.
- Develop and implement robust measures to safeguard sensitive data.

Compliance Management

Way Forward

- Stay abreast of evolving regulatory frameworks and ensure compliance with data protection laws.
- Mitigate legal risks associated with technology operations.

Talent Acquisition and Retention

Way Forward

- Address the shortage of skilled technology professionals by implementing effective talent acquisition and retention strategies.
- Foster a conducive work environment to attract and retain top-tier talent.

Technological Innovation

Way Forward

- Drive continuous technological innovation to maintain a competitive edge.
- Balance the adoption of emerging technologies with the need for stability and reliability.

## Globalization and Outsourcing

Way Forward

- Navigate the challenges and opportunities presented by globalization, including outsourcing decisions.
- Optimize global technology operations to enhance efficiency and reduce costs.

In navigating these challenges, CTOs play a pivotal role in shaping the technological landscape of India and contributing to global technological advancements.

In the technology-driven business world of today, the need for proficient Chief Technology Officers (CTOs) and Chief Digital Officers (CDOs) is on the rise. A CTO programme empowers professionals with the expertise to excel in these pivotal roles, enhancing their leadership capabilities in technology strategy, innovation, and decision-making. By bridging the divide between business and IT, the programme enables CTOs to align technology initiatives with organizational objectives and drive digital transformation. This interdisciplinary programme targets individuals seeking to enhance leadership skills, comprehend CTO/CDO responsibilities, explore technology strategy, and gain a tech-led competitive advantage.
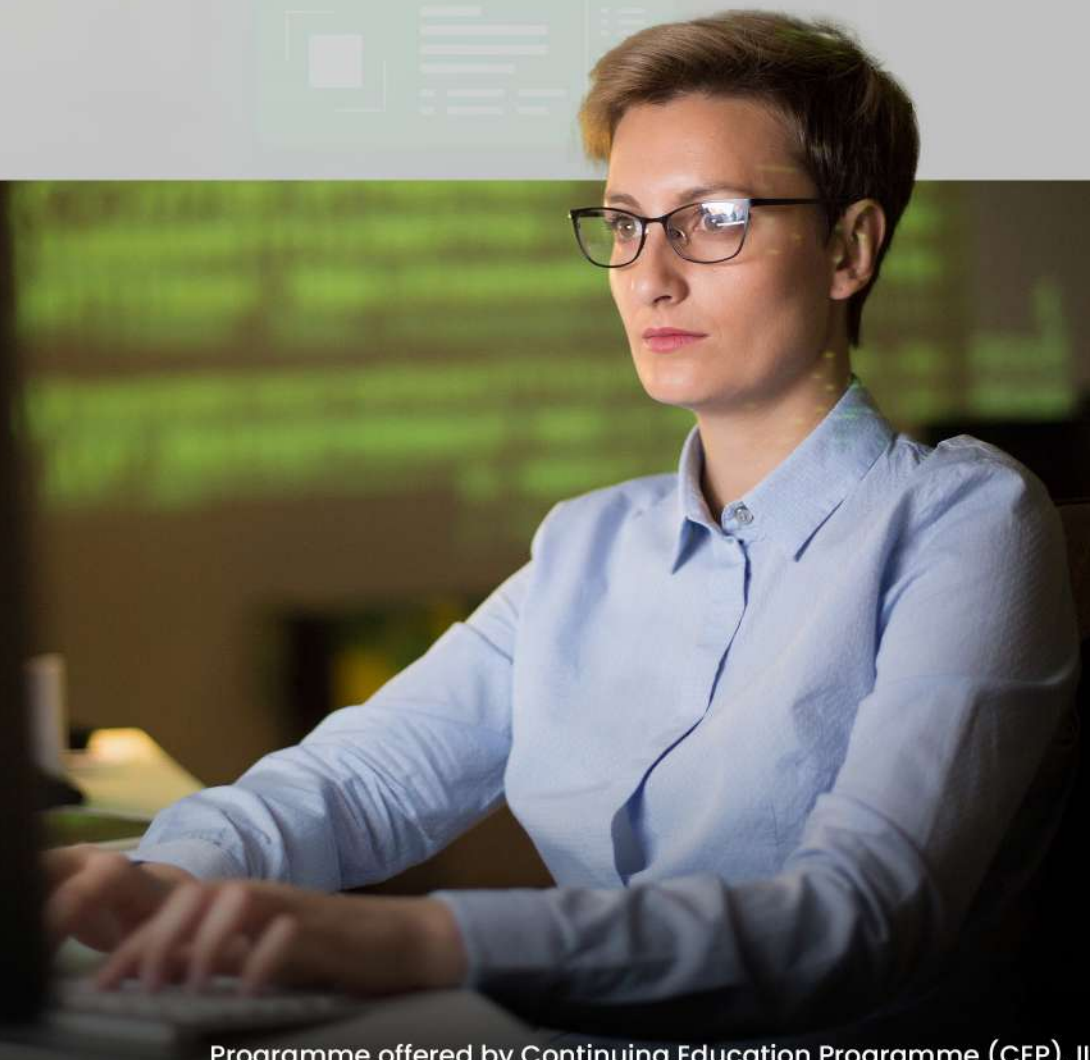
Key Differentiators

Case Studies Driven Learning

Exposure to World-class Knowledge and Global Best Practices

Networking Opportunities with Future High-Value Individuals

Certificate of Successful Completion from CEP, IIT Delhi

Live Interactive Sessions by IIT Delhi Faculty

2 Days of Campus Immersion

WHO Can Attend?

The following professionals, particularly those at the pre-CXO (Chief Experience Officer) levels, should consider enrolling for this intake:

- **Technical Head:**

  To stay updated on the latest advancements and trends in technology that can impact their role and responsibilities.

- **VP Digital Product:**

  To gain insights into innovative product development strategies and digital trends that can enhance their product offerings.

- **Digital Transformation Manager:**

  To learn about successful digital transformation case studies and strategies that can be applied to their organization.

- **Senior Product Manager:**

  To understand the evolving landscape of digital products and how to drive product success in a digital-first world.

- **Digital Transformation Leader:**

  To exchange ideas and strategies with peers and experts in the field and to lead digital transformation initiatives effectively.

- **Deputy General Manager**

  To stay informed about industry changes and new approaches to leadership and management in the digital era.

- **General Manager:**

  To gain a broader perspective on digital strategies that can drive organizational success and competitive advantage.

- **Associate Vice President:**

  To expand their knowledge of digital solutions and trends that can contribute to the growth of their department or division.

- **Consultant:**

  To gather information on emerging market trends and technologies, which can be valuable for providing informed advice to clients.

- **Senior Consultant:**

  To enhance their expertise and keep their consulting services aligned with the latest industry developments.

Designed for professionals to stay at the forefront of digital transformation and gain insights into strategies that can drive success in their respective roles and industries.

Key Learning Outcomes

1 Strengthen core leadership skills

2 Build strategic and functional responsibilities of a CTO, CDO

3 Explore strategy, ideation, and adaptation in technology

4 Create a Tech-Led Competitive Advantagefor their organization

5 Master system dynamics modelling approach to model technical innovation

Programme Content

Rise of Digital Business Ecosystems

- Digitalization and Digital Transformation
- Digital Consumer Behavior
- Ecosystem Collaboration & Orchestration
- Digital Marketplaces

Aligning Technology and Business Strategies

- Strategic Information Systems Matrix
- Business Operating Models
- Business-IT Strategic Alignment

Emerging Technologies—Blockchain, AIML, Digital Twins, Generative AI

- Emerging Technologies 101: Blockchain,
- AIML, Digital Twins, Generative AI Applications for competitive advantage
- Challenges

Enterprise Architecture and IT Infrastructure

- Information systems pyramid
- Enterprise Architecture Frameworks
- Cloud Infrastructure Management
- IT Infrastructure Optimization

Managing and Implementing Complex IT Projects

- Project Management Methodologies
- Risk Management in IT Projects
- Technology Governance

Building an AI-driven or an Intelligent Organization

- Understanding AI and Problem Solving
- Generative AI and Its Business Applications
- AI for Strategic Decision-Making
- Building and Deploying AI Models at Scale

Digital Transformation and Change Management

- Change Leadership
- Cultural Transformation
- Change Communication
- Change Measurement and Metrics

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Digital Innovation Strategies

- Open and Closed Innovation Systems
- Process of innovating with digital technologies
- Innovation Labs
- Design Thinking in Innovation

Digital Product Management and Go-to-Market Strategy

- Product Lifecycle Management
- Product-Market Fit
- Go-to-Market Strategies

Data Monetization and Analytics

- Data Monetization Models
- Advanced Analytics
- Big Data Strategies
- Data Governance

Digitised Value Chains

- Value Chain Optimization
- Supply Chain Digitization
- Digital Operations
- Integrated Value Chain Models

Digital Platforms

- Platform Business Strategies
- Ecosystem Development
- Platform Governance

Managing Hybrid Enterprises

- Hybrid IT Infrastructure
- Hybrid Cloud Strategies
- Hybrid Workforce Management

Crisis Management

- Crisis Communication
- Business Continuity Planning
- Risk Mitigation
- Crisis Leadership

Leading Teams & Organizational Dynamics

- Chief Digital Officers & CXOs
- Team Dynamics and Collaboration
- Organizational Dynamics

Cybersecurity, Risk, and Compliance Management

- Cybersecurity Frameworks and Standards
- Incident Response and Recovery Planning
- AI Risk and Threat Modelling
- Regulatory and Ethical AI Compliance

Technology Policy, Privacy, and Security

- Privacy by Design & AI Governance
- Responsible Use of Generative and Agentic AI
- Security Policies and Internal Governance
- Technology Policy and Societal Impact

Automation & the Future of Work

- AI in Workforce Automation
- Workforce Upskilling
- Ethical Considerations in Automation

Finance for CTOs

- IT Budgeting and Cost Management
- ROI Analysis for Technology Investments
- Total Cost of Ownership (TCO) for IT Projects
- Financial Metrics for Evaluating IT Performance

Best practices from the Industry

- Industry-Specific Case Studies
- Success Stories in Digital Transformation
- Lessons Learned
- Industry Benchmarking

Note: This is an indicative list of course topics and is subject to change at IIT Delhi's discretion.

Driving
Innovation Through Leadership

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

Programme Details

Application Closure Date | 31st July 2025
Commencement Date | 9th August 2025

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Duration	• 10 Months	35 Sessions	105 Hours of Learning
Delivery	• Live Online Sessions delivered through Direct-to-Device (D2D)
Schedule	• Session Timings: Saturday, 05:00 pm to 08:00 pm
Eligibility	• Graduation (10+2+3) from a recognized university (UGC/AICTE/DEC/AIU/State Government/ recognized international universities) in any discipline with a minimum of 5 years of working experience.
Screening & Selection	• Screening and selection will be done by IIT Delhi
Admission Criteria	• Selections will be based on a detailed Profile of the Candidate in his own words elaborating on his Academic record, Profile, Designation, Salary, Roles, Responsibilities, Job Description, and a write-up on "Expectations from the Programme".

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

Assessment	- One mid-term exam - 25% - One end-term exam - 25% - Capstone project - 25% - Assignments - 25% - Exams shall be based on the content covered in the course. It will be open ended and application oriented - Learners will get 24 Hours to submit the answers - Capstone project - It will be a group exercise. Learners are expected to undertake a real life project from their organization and implement the ideas generated from the course. - Assignments - Periodic assignments shall be assigned during the course for continuous assessment
Attendance	50% attendance is mandatory

Pedagogy

Lectures · Tutorials · Case Studies · Capstone Project · Panel Discussions · Guest Lectures
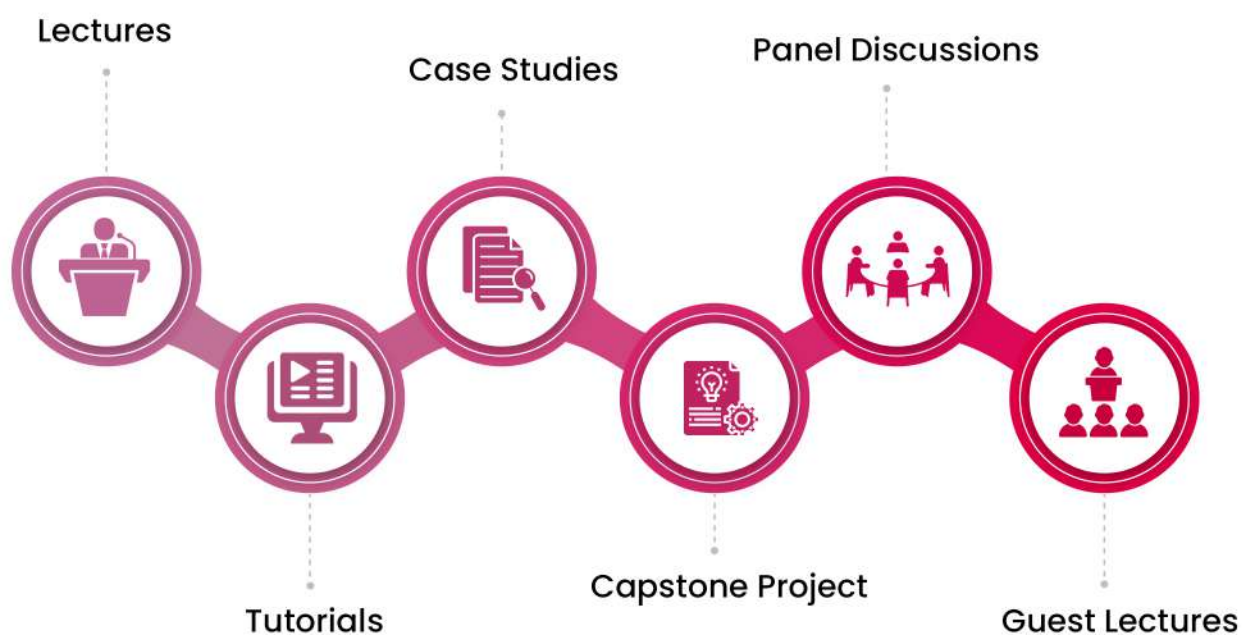
Real-World Case Studies: Learn from Global Trailblazers

As part of the curriculum, learners will explore 10+ in-depth case studies showcasing cutting-edge digital transformation strategies from leading global organizations. These real-world examples offer practical insights into how top companies leverage technology for competitive advantage. Featured case studies include:

- **Digital Twins in Action:** Explore how the Norwegian power sector leveraged digital twin technology to enhance operational efficiency.

- **AUDI AG:** Discover how Audi embedded big data analytics at the heart of its digital transformation.

- **DBS Bank:** A deep dive into DBS's journey towards becoming a fully digital bank through strategic business innovation.

- **Walmart Canada:** Understand how blockchain technology revolutionized their freight invoice processing.

- **Carestream Health:** Analyze the end-to-end digital transformation roadmap of a leading healthcare imaging company.

- **Adidas:** Learn how a contrarian IT multisourcing strategy delivered tangible business benefits.

- **Hummel:** Gain insights from Hummel's shift to omnichannel retailing through digital transformation.

- **American Express:** Examine the social media strategy that strengthened brand engagement and customer loyalty.

- **AI in Legal Services:** Investigate the complexities of integrating machine learning and AI in knowledge-intensive law firm environments.

These case studies are not just stories—they are blueprints for transformation, offering learners actionable insights they can apply within their organizations.

Programme Fee Details

Programme Fee Structure

Application Fee (non-refundable)*
INR 1,000/- + GST

TOTAL PROGRAMME FEE*

INR 2,50,000/- + GST

Instalment Pattern

Instalment 1: INR 1,50,000/- + GST
Within 3 days of issue of offer letter

Instalment 2: INR 1,00,000/- + GST
10th August 2025

Easy EMI Options Available*

*Application Fee of INR 1,000/- + GST is non-refundable and will not be adjusted in the total programme fee.

*Payment of fees should be submitted in the IIT Delhi CEP account only and the receipt will be issued by the IIT Delhi CEP account for your records.

*Loan Options is a service offered by Jaro Education. IIT Delhi is not responsible for the same.

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 crm.supportiitd@jaro.in, stating your intent to withdraw. The refund, if applicable, will be processed within 30 working days from the date of receiving the withdrawal request.

Programme Certification

Participants who receive at least 50% in the assessment will receive a **'Certification of Completion.'**

Participants who do not meet the evaluation criteria but meet the attendance requirements will be presented with a **'Participation Certificate.'**

- The above e-certificate is for illustrative purposes only, and the format of the certificate may be changed at the discretion of IIT Delhi.
- Only an e-certificate will be provided, and it will be issued by CEP, IIT Delhi.
- The organising department of this programme is the Department of Management Studies, IIT Delhi.

Mr. Bhavya Bansal

Head of Engineering,
Easyres Travel Technologies Pvt. Ltd.

"Joining the IIT Delhi CTO Programme was driven by my passion for learning and a fascination with how tech executives shape company direction. This programme has enriched my decision-making skills and expanded my network, positioning me to advance towards becoming a successful CTO. The experience at IIT Delhi, paired with exceptional faculty, has been a dream come true. Overall, my journey with Jaro Education has been fantastic, thanks to their unwavering support and commitment to providing a great learning experience. I highly recommend this programme for its profound insights and invaluable connections."

Mr. Jayesh Jadhav

Senior Manager, Technology,
Publicis Sapient.

"Pursuing IIT Delhi's CTO Programme was an enriching experience in my journey toward becoming a CTO. The programme offered clear insights into the role, emphasizing essential areas like AI and Finance. Learning from esteemed faculty like Mr. Vignesh, whose interactive and responsive teaching style was truly inspiring, was a highlight. I highly recommend this certification for anyone paspiring to excel in a CTO role. My experience with Jaro Education was exceptional, with seamless coordination that greatly enhanced my learning journey. As a first-time participant, I appreciated the clarity and support provided throughout the course."

Mr. Tulasi Reddy Puchakayala

Head of Technology and Digitalisation, Jindal Steel and Power

"The CTO programme at IIT Delhi broadened my strategic perspective as a tech leader, enhancing my expertise in AI, Blockchain, and enterprise architecture. It provided clarity on my career path and led to a promotion shortly after completion—a clear testament to its impact. The faculty's exceptional blend of academic rigour and practical insights made each session highly relevant to the challenges faced by senior tech professionals. Jaro Education ensured a seamless experience, from enrolment to completion, with timely communication and support. For aspiring CTOs seeking transformative leadership skills, this programme is an invaluable investment in future-ready expertise."

भारतीय प्रौद्योगिकी संस्थान दिल्ली
INDIAN INSTITUTE OF TECHNOLOGY DELHI

P. Vigneswara Ilavarasan

Abdulaziz Alsagar Chair Professor, Dept.
of Management Studies,
Indian Institute of Technology Delhi

Watch Now! ▶

P. Vigneswara Ilavarasan (PhD - IIT Kanpur) is Abdulaziz Alsagar Chair Professor at the Dept. of Management Studies, Indian Institute of Technology Delhi. He researches and teaches about the interaction of information and communication technologies (ICTs), society & business.

Dr. Ilavarasan is one of the top 2% of cited scholars in the world in 2022, as per the Elsevier & Stanford study. He has been a Visiting Research Fellow at United Nations University (Macau), Curtin University and the University of Queensland. He is a recipient of the Outstanding Young Faculty Fellowship Award at IIT Delhi and the Prof. M.N. Srinivas Memorial Prize of the Indian Sociological Society. He is also a Senior Research Fellow at LIRNEasia, a leading regional ICT policy and regulation think tank. He has received large research grants from the Department of Science & Technology (Govt of India), ICSSR (India), IDRC (Canada), Oxford Analytica (UK), IPTS (European Commission), CIPPEC (Argentina), Ford Foundation and others. He is currently a Section Editor of Society & Politics, Heliyon (Elsevier & Cell Press). His research has appeared in all the leading international journals and conferences of repute.
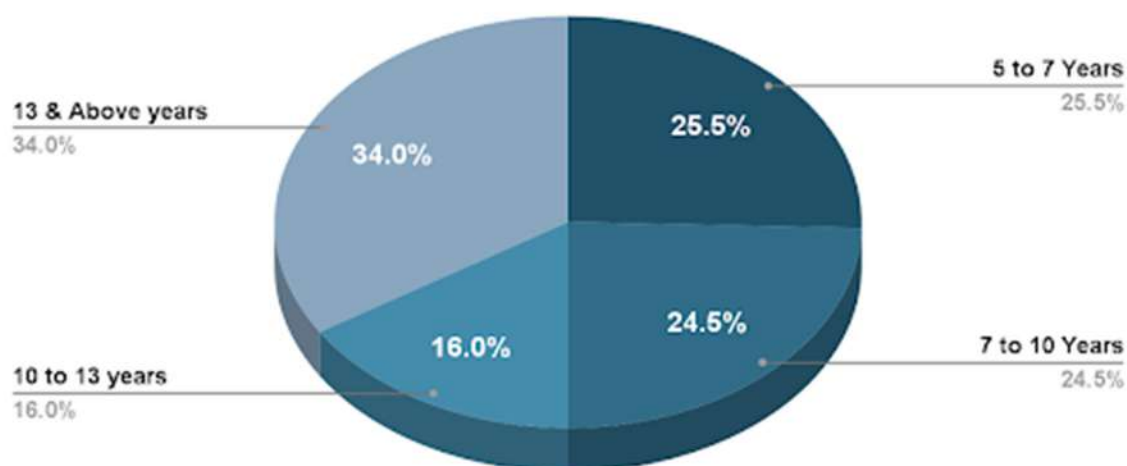
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Participant Snapshot: A Closer Look at Our Latest Cohort's Demographics

Work Experience

A highly experienced cohort with substantial industry exposure:

Past Experience of Professionals

- 5 to 7 Years — 25.5%
- 7 to 10 Years — 24.5%
- 10 to 13 years — 16.0%
- 13 & Above years — 34.0%

Industry Representation

Industry profile of Professionals

- Information Technology — 54.72%
- Banking & Finance — 13.21%
- Manufacturing — 12.26%
- Retail & Consumer — 7.55%
- Healthcare — 4.72%
- Education — 3.77%
- Other — 3.77%
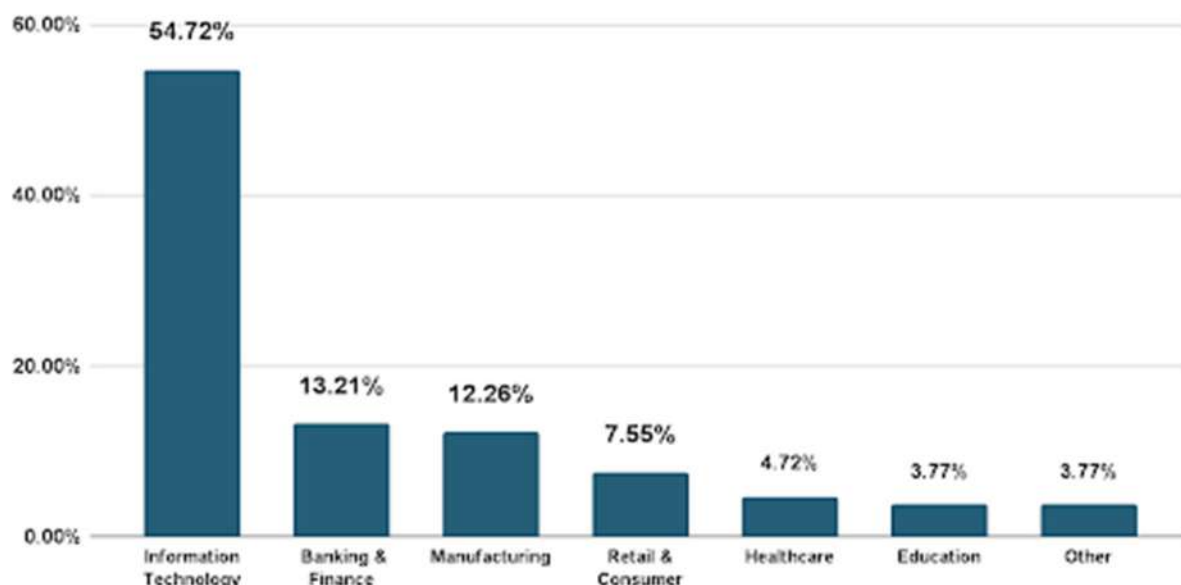
Leading Organizations Where Our Participants Work

Microsoft

McKinsey & Company

J.P.Morgan

BARCLAYS

PEPSICO

Rakuten

standard chartered

WELLS FARGO

watsonx

HCLTech

CISCO

accenture

genpact

thoughtworks

Infosys

Key Roles & Designations

- Chief Technology Officer (CTO)
- Chief Product Officer
- Director
- Senior Vice President (SVP)
- Vice President (VP)
- Associate Vice President (AVP)
- General Manager (GM)
- Head of IT
- Principal Architect
- Technology Lead

Note:

- Past performance does not guarantee future results.
- All company names are trademarks or registered trademarks of their respective holders. Use of these names does not imply any affiliation with or endorsement by them.
- This is a partial list.

#1 Ranked

in Asian University Rankings Southern Asia as per QS World University Rankings (2025)

#4 Ranked

as per NIRF India Rankings (2024) (Management category)

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 College of Engineering in 1961, the Institute was later declared as 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 academic policy, to conduct its examinations, and to award its degrees.

Since its inception, over 48000 students have graduated from IIT Delhi in various disciplines, including Engineering, Physical Sciences, Management, Humanities and Social Sciences. Of these, nearly 5070 received PhD degrees. The rest obtained a Master's Degree in Engineering, Sciences and Business Administration. These alumni today work as scientists, technologists, business managers and entrepreneurs. There are several alumni have moved away from their original disciplines and have taken to administrative services, active politics, or are with NGOs. In doing so, they have significantly contributed to the building of this nation and industrialization around the world.

About 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 of 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 & 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 organizations, industries, society and individual participants at national and international level with a vision to empower thousands of young learners by imparting high-quality Online Certificate Programmes in cutting-edge areas for their career advancement in different domains of engineering, technology, science, humanities and management.

SERVICES PROVIDED BY:

jaro education

Jaro's Programme Expert

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

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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.