



Ashank Desai
Centre *for* Policy Studies
Indian Institute of Technology Bombay
Insight ♦ Dialogue ♦ Impact



e-Post Graduate Diploma (ePGD) in Digital Governance

Bridging technology, policy,
and governance for the digital economy












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Course Summary:

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|  | Certificate | Upon successful completion of the course, you will receive the e-Post Graduate Diploma in Digital Governance from IIT Bombay |
|  | Course duration | 24 months |
|  | Learning format | 100% live online classes |
|  | Faculty | Learn from the distinguished IIT Bombay faculty in interactive live online sessions |
|  | Eligibility | Designed for working professionals with a minimum of five years of work experience |
|  | Key learning | Governance and leveraging of Digital technologies, Algorithms, AI and Policy, Digital Platforms, Cybersecurity, Digital Public Infrastructure, Regulation of Digital Tech and Digital Policymaking |
|  | Practical learning | Case study-driven learning using Indian and global examples across AI, healthtech, digital identity, platforms, and public digital systems |



About the e-Post Graduate Diploma (ePGD) in Digital Governance

The e-Post Graduate Diploma (ePGD) in Digital Governance is a meticulously designed, 24-month course that examines digital governance in its full scope and complexity. Developed by IIT Bombay, the curriculum addresses how digital systems are governed across data, platforms, algorithms, regulation, risk, and institutional frameworks. Rather than offering a high-level overview, the course provides a graduate-level examination of how contemporary digital economies and public systems are structured, regulated, and governed in practice.

This course provides a structured exploration of digital governance across data, technology, regulation, risk, and institutional oversight. It examines governance as the intersection of technology, policy, economics, and institutions, with a focus on data, artificial intelligence, digital platforms, cybersecurity, and digital public infrastructure in Indian and global contexts.

The curriculum begins by developing a foundational understanding of digital data flows and data management within organizations, examining how digital assets differ from traditional physical assets and how they are governed at scale. It then progresses to the study of legislation and regulation of digital technologies, tracing the evolution of digital regulation from early concerns around communication secrecy and cybercrime to contemporary challenges involving data protection, surveillance, and emerging technologies such as AI, platforms, and digital marketplaces.

Building on this foundation, the course examines algorithms and artificial intelligence from a governance and policy perspective, exploring how algorithmic systems shape social and economic outcomes, how they are regulated, and what governance challenges arise from their deployment. Learners also study risk management and security of digital systems, focusing on cybersecurity, digital sovereignty, regulatory interventions, and governance frameworks in an increasingly software-driven and borderless world.

In addition to core courses, the ePGD offers a set of electives that allow learners to deepen their understanding of specific domains such as digital technology governance, digital public infrastructure, fintech, healthtech, and global digital policymaking. Across the learning journey, the course integrates Indian and global case studies that ground theoretical frameworks in real institutional, regulatory, and governance challenges.

The ePGD in Digital Governance is designed for mid to senior career professionals who seek to operate at the intersection of technology, policy, and institutions. It equips learners with the analytical frameworks, regulatory understanding, and governance perspectives required to engage with digital transformation initiatives while navigating legal, ethical, economic, and institutional constraints.



Key Features



Earn the e-Post Graduate Diploma in Digital Governance from IIT Bombay



Earn the prestigious IIT Bombay alumni status and engage in peer-learning & networking opportunities with industry professionals



Participate in an in-person graduation ceremony at the IIT Bombay, Powai, campus



Earn outreach program credits from IIT Bombay which can be saved in the Academic Bank of Credits (ABC)



Curriculum designed and delivered by IIT Bombay Faculty. Live Interactive sessions with the faculty



Gain access to IIT Bombay's Lateral Hiring Group



Gain end-to-end mastery in digital governance across data, AI, digital platforms, cybersecurity, and regulation



Bridge technology, policy, and regulation to lead digital transformation across industry, government, and public services



Build a strong policy and regulatory foundation covering GDPR, India's DPDP Act, IDEA Act, and emerging AI and platform regulations



Apply governance concepts through Indian and global case studies across fintech, healthtech, smart cities, digital identity, and public digital systems



Develop expertise in governing algorithms and AI systems, with a focus on accountability, transparency, risk, and ethical deployment

Industry Trends



Data Governance Is a Fast-Growing Priority in India

India's data governance market is projected to grow from USD 193.75 million in 2024 to USD 871 million by 2035, at a CAGR of ~14.6%, driven by regulatory compliance and enterprise digitization.

Source: Market Research Future



Digital Governance Is Scaling Rapidly Through Digital Public Infrastructure

India's Digital Governance market is expected to expand from USD 1.5 billion in 2024 to USD 5.5 billion by 2035, growing at a CAGR of ~12.54%, as governments accelerate digital public service delivery and platform adoption.

Source: Market Research Future



AI Governance Is Emerging as a High-Growth Domain

The AI governance market in India is forecast to reach USD 317.1 million by 2033, with a strong CAGR of ~44%, reflecting rising demand for responsible, policy-aligned AI deployment.

Source: Grand View Research



Regulation Is Driving Immediate Governance Skill Demand

The introduction of India's DPDP Act, alongside GDPR and emerging AI and platform regulations, is creating sustained demand for professionals who can translate regulation into operational governance frameworks.

Source: Markets & Markets



Governance and Security Roles Show Strong Job Market Growth

Employment for Information Security Analysts is projected to grow 29% from 2024 to 2034, significantly faster than the average for all occupations, reflecting rising governance, risk, and compliance needs.

Source: U.S. Bureau of Labour Statistics

Who Is This Course For?

- ☑ **Mid-career professionals** with 5+ years of work experience who are working at the intersection of technology, policy, governance, or institutional decision-making
- ☑ **Industry professionals** involved in digital transformation initiatives across data, platforms, AI, cybersecurity, and regulation
- ☑ **Government and public sector professionals** engaged in digital governance, Digital India initiatives, and public digital systems
- ☑ **Legal, policy, and academic professionals** working on technology policy, regulation, and digital governance
- ☑ **Development sector and consulting professionals** involved in governance reforms and large-scale digital initiatives

Key Learning Outcomes

After completing the course, learners will be able to:



- 1 Analyze digital governance ecosystems**
Examine how institutions, platforms, regulators, and stakeholders interact across digital systems
- 2 Apply data governance principles in real contexts**
Evaluate data collection, sharing, protection, and stewardship decisions using governance and regulatory lenses
- 3 Interpret and contextualize digital laws and regulations**
Apply frameworks such as GDPR, India's DPDP Act, IDEA Act, and emerging AI regulations to real-world scenarios
- 4 Assess AI and algorithmic systems for governance risks**
Evaluate issues of bias, accountability, transparency, and oversight using algorithmic accountability frameworks
- 5 Evaluate governance challenges in digital platforms and public infrastructure**
Analyze governance trade-offs in platforms and DPI initiatives using Indian and global case studies
- 6 Assess cybersecurity and digital risk from a governance perspective**
Examine encryption, surveillance, cyber incidents, and cross-border risks through institutional and policy lenses
- 7 Apply governance frameworks to sector-specific use cases**
Derive governance and policy insights from case studies in fintech, healthtech, smart cities, and public digital systems
- 8 Integrate technology, policy, and institutional considerations in decision-making**
Form structured judgments on digital initiatives by balancing technological capability, regulation, and public interest

Learning Path Visualization:

Core Courses



Elective Courses

- ✔ Governance of Digital Technology
- ✔ Leveraging Digital Technology
- ✔ Global Development of FinTech
- ✔ Emergence of HealthTech
- ✔ Digital Policymaking and Its Economic Implications

*Curriculum review and changes are under the purview of the faculty and would be undertaken from time to time to ensure the course coverage is in line with industry requirements.

Core Courses:

Digital Data Flow and Data Management

Topics Covered:

- ✔ Rapid increase in the generation and usage of digital data
- ✔ Management of digital data by firms and organizations
- ✔ Governance of digital data by firms and organizations
- ✔ Analytical differences between digital assets and brick-and-mortar assets

Algorithms, AI, and Policy

Topics Covered:

- ✔ Historically, how have algorithms evolved and altered the social sphere
- ✔ When do algorithms morph into what is called Artificial Intelligence?
- ✔ Indian policymaking and the vision for AI
- ✔ The various economic and governance responses to AI
- ✔ Infrastructural, economic, labour, and energy issues with algorithms, and AI

Legislation and Regulation of Digital Technology

Topics Covered:

- ✔ Focus of early regulation of digital technology on communication secrecy and cryptography.
- ✔ Shifting of regulatory attention to cybercrime
- ✔ Legal challenges with commercial expansion of the internet
- ✔ Intensifying public concerns about state and corporate surveillance
- ✔ International landscape of regulations around AI and algorithms

Risk Management and Security of Digital Systems

Topics Covered:

- ✔ Software and contemporary software development practices
- ✔ Risk management classical approaches
- ✔ Cybersecurity and cyber-risk management
- ✔ IT governance and IT governance frameworks
- ✔ Digital transformation, where the "real world" is increasingly being softwarized and borderless
- ✔ Standards as a proxy for regulation and policy



Elective Courses:

Governance of Digital Tech

Topics Covered:

- ✔ Traditional technology governance
- ✔ Digital governance and Digital frameworks
- ✔ Concerns and challenges related to Digital Sovereignty
- ✔ National and international forums for discussion and contestation

Leveraging Digital Technology

Topics Covered:

- ✔ Digital data centers and data monetisation
- ✔ Data extraction and models of political and economic surveillance
- ✔ Internet -current architecture, jurisdictional challenges, business & freemium models
- ✔ Leveraging of the digital public infrastructure
- ✔ Hardware and software issues (government versus private control)
- ✔ Internet's global reach - (consumer protection, taxation, foreign exchange management)

Global Development of FinTech

Topics Covered:

- ✔ Development of fintech as a technology
- ✔ Fintech as part of the surveillance capitalism framework
- ✔ Role of the state in aiding and regulating Fintech
- ✔ Rollout of Fintech differing between rich and poor nations
- ✔ Fintech and the goals of "financial inclusion"
- ✔ Ethical issues emerging from the rise of Fintech



Emergence of HealthTech

Topics Covered:

- ✔ Legal and Regulatory frameworks
- ✔ Current health data standards and interoperability challenges
- ✔ Ethical aspects of health data governance
- ✔ Privacy and security aspects of health data management
- ✔ Health data ownership, consent, and control
- ✔ Health data quality and integrity

Digital Policymaking and Its Economic Implications

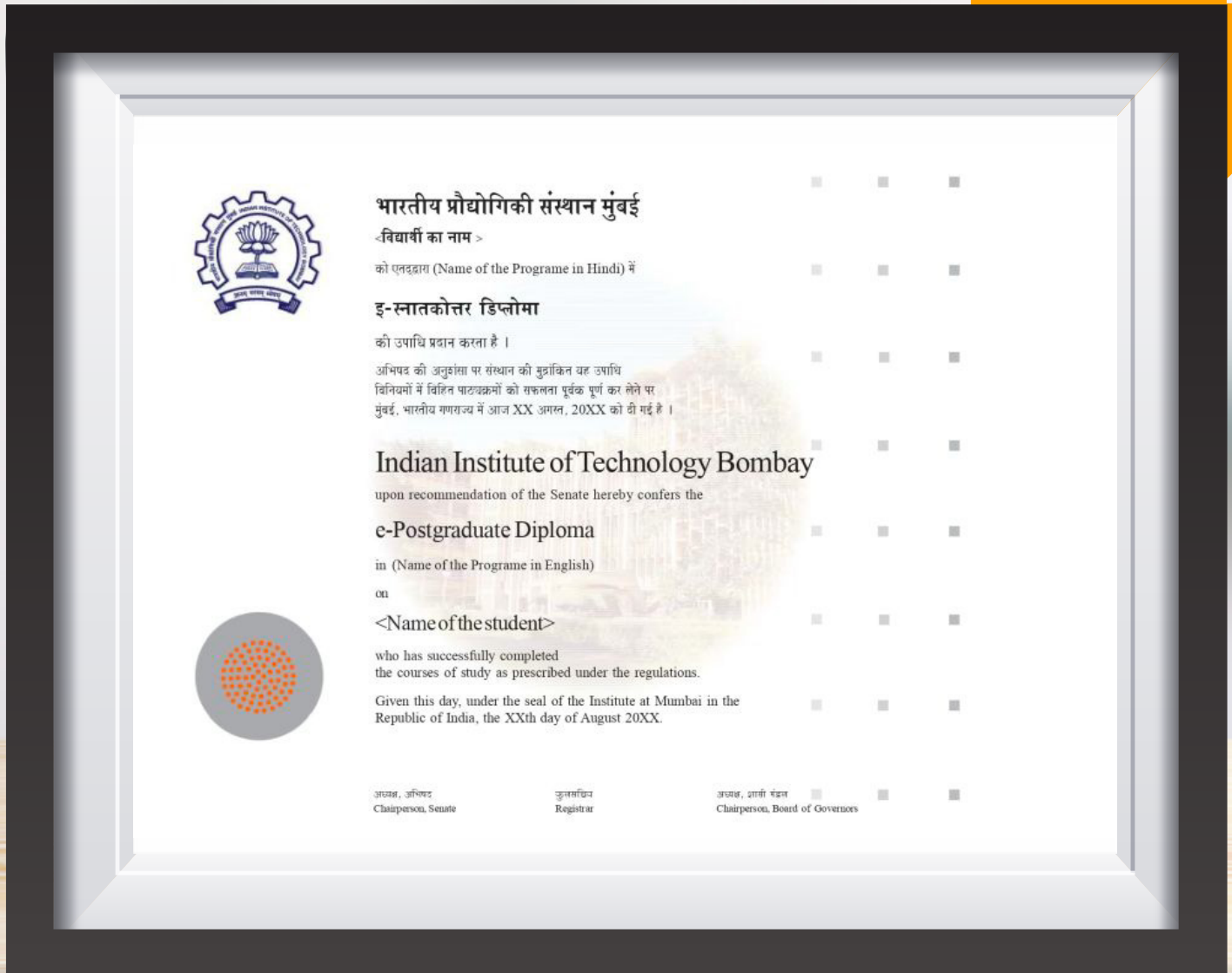
Topics Covered:

- ✔ Digital policy as shaped by a mix of international bodies, academic norms, standards organizations, and private tech firms
- ✔ Global digital infrastructures and data flows by weakening traditional state controls
- ✔ Production and incentives in digital coding - Code as Law
- ✔ Understanding international digital governance, cross-border data laws, data trade, and the underlying markets and power structures of global tech policy



Certificates

Upon successfully completing the e-Post Graduate Diploma (ePGD) in Digital Governance, you will have the opportunity to attend an in-person graduation ceremony at the IIT Bombay campus.



*Note: Image for illustration only. Certificate subject to change.

IIT Bombay Faculty Details



Prof. Shishir K. Jha

Former Head, Ashank Desai Centre for Policy Studies,
IIT Bombay

Profile

- ✔ 30 years of teaching across IIT Bombay, IIM Bangalore, IIM Kozhikode, and Ithaca College, New York
- ✔ Research focuses on the data economy, digital markets, and governance
- ✔ Expertise in data monetization, digital identity, and platform economics
- ✔ National Lead, Creative Commons India (2007)



Prof. Anupam Guha

Ashank Desai Centre for Policy Studies, IIT Bombay

Profile

- ✔ Works on AI, AI policy, and AI-labour dynamics
- ✔ Former Senior Researcher at Comcast Research (ML, NLP, AI systems)
- ✔ PhD in Computer Science, University of Maryland
- ✔ Brings technical depth to AI policy and governance



Prof. Sundeep Oberoi

Adjunct Faculty, Ashank Desai Centre for Policy Studies,
IIT Bombay

Profile

- ✔ 36+ years of experience across industry, research, and entrepreneurship
- ✔ Led cybersecurity for major Government of India projects
- ✔ Former Global Head, Cybersecurity Business Unit, Tata Consultancy Services
- ✔ PhD in Computer Science, IIT Bombay



Prof. Santosh Noronha

Department of Chemical Engineering,
IIT Bombay

Profile

- ✔ Multidisciplinary expertise in bioprocess engineering, healthtech, and edtech
- ✔ Research interests in health data, data science, and technology deployment
- ✔ Leads national-scale initiatives such as Virtual Labs (MoE ICT project)
- ✔ Professor-in-charge, Tata Centre for Technology and Design

*This is an indicative list of faculty and is under the purview of IIT Bombay

Eligibility Criteria

- ✔ A minimum of five years of work experience
- ✔ A four-year bachelor's degree (post 10+2) in Arts, Commerce, or equivalent, or a five-year LLB, or an LLB after an undergraduate degree, with a minimum of 55% marks (50% for SC/ST/PwD)
- ✔ A postgraduate or professional degree, including a two-year MSc/MS/MTech, or a four-year BSc/BS/BTech/BArch, or MBBS (post 10+2), or equivalent, with a minimum of 60% marks (55% for SC/ST/PwD)

Registration Process



Submit an Application

Interested candidates can apply for the e-Postgraduate Diploma by completing a simple online application form.

Application Review

A group of enrollment counselors will analyze your enrollment after you submit it to ascertain your qualifications and interest in the course.

Registration

The selected candidates will receive an offer letter to join the course. They must pay the registration fee to secure their seat and complete the registration.

Support

Our dedicated admissions counselors are ready to assist with any questions or concerns about this course.

- ✔ Guide you through the application process
- ✔ Discuss financing options
- ✔ Offer detailed insights into the curriculum, learning outcomes, and more

Disclaimer: Simplilearn acts only as an enrolment support and guidance channel, not as an academic or course-delivery provider.



About IIT Bombay

IIT Bombay is an autonomous institute and deemed university governed by a board of governors, chaired by the president of India. The institute offers innovative short-term courses, continuing education, and distance learning. Faculty members have received prestigious awards, including the Shanti Swaroop Bhatnagar and Padma honors.

IIT Bombay was established in the year 1957 and the Department of Electrical Engineering (EE) has been one of its major departments from the inception of this institute. The facilities in the department are among the best in India, and in certain specialized areas compete with leading international universities. It is one of the largest departments in the institute in terms of the number of faculty members, students enrolled and research funding. The department has made rapid strides during the last decade in all spheres of education and research





About Simplilearn

Founded in 2010, Simplilearn, a Blackstone portfolio company, is a global leader in digital upskilling, enabling learners across the globe with access to world-class training for individuals and businesses. Simplilearn offers 1,500+ live classes each month across 150+ countries, impacting over 8 million learners worldwide. Its programs are designed and delivered in collaboration with world-renowned universities, top corporations, and leading industry bodies, via live online classes led by industry practitioners, sought-after trainers, and global leaders. From college students and early-career professionals to managers, executives, small businesses, and large enterprises, Simplilearn's role-based, skill-focused, industry-recognized, and globally relevant training programs provide ideal upskilling solutions for diverse career or business goals.



For More Details:

Check course details on: <https://www.simplilearn.com/iit-bombay-epgd-digital-governance-course>

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