

COURSE CONTENT:

DIGITAL GOVERNANCE, BIG DATA AND AI AUTOMATION

(08th to 19th February 2027)

I. Foundations of AI & Automation in Governance**1: Introduction to AI in Government**

- Evolution of Artificial Intelligence in governance
- Need for automation in public administration
- Global and Indian case studies of AI adoption

2: Basics of AI & Machine Learning

- Introduction to AI, Machine Learning, and Deep Learning
- Types of ML: supervised, unsupervised, reinforcement learning
- Role of AI in decision-making

3: Data for AI Systems

- Importance of data in automation
- Data collection, cleaning, and preprocessing
- Government data ecosystems and data governance

4: AI in policy Decision Making

- AI-based decision support systems (DSS)
- Real-time analytics and dashboards
- Hands-on: Power BI

II. Advanced Applications & Implementation**5: Predictive Analytics for Governance**

- Forecasting and trend analysis
- Applications in budgeting, welfare targeting, and resource allocation

6: AI in Public Service Delivery

- Automation in healthcare, education, agriculture, and finance
- Chat-bots, virtual assistants, and citizen engagement tools
- Case studies from Digital India initiatives

7: Project & Presentations

- Group project: Designing an AI-driven automated solution
- Presentation and evaluation
- Feedback and future roadmap for AI adoption