# Two Weeks Data and Risk Analytics for Effective Decision Making September 04-17, 2024

## Programme Coordinators

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## Sponsored by



**Indian Technical and Economic Cooperation (ITEC) Programme Ministry of External Affairs, Govt. of India (MEA)**

## Conducted by



**Indian Institute of Public Administration Indraprastha Estate, Ring Road New Delhi - 110002**

*IIPA - inspiring excellence is a way of life*

### *The Institute*



Public Administration has always implied Government when 'public' actually means community or people. In the post-colonial, post-independence paradigm of the early 1950s, Public Administration really meant providing service to the people by the State apparatus using the ground rules of justice, ethics, and fair-play. This was the intention of the visionary Pandit Jawaharlal Nehru when he established the Indian Institute of Public Administration on March 29, 1954 based on the recommendations of a survey carried out in 1953 by Prof. Paul H. Appleby, Dean, Maxwell School of Citizenship and Public Affairs, Syracuse University and a Consultant with the Ford Foundation invited to advice on the subject, by the Government of India. As the Institute's first President for a decade, Prime Minister Nehru placed great emphasis on 'de-colonialising' the mind-set of administration, making it more people-oriented. And he placed a great responsibility on the IIPA to enhance the frontiers of knowledge in public policy and governance through applied research and education as well as training of administrators to serve the people of India. Enhancing leadership and managerial qualities on the one hand and developing a service-orientation on the other are the thrust areas of the Institute's education and training activities. Its faculty is involved with research work mainly to simplify procedures and suggest policy changes to ensure improved delivery of public services. As India globalizes under growing media glare, her administration and governance have to change with the times and respond to the high expectations of a society where the demographic pre-ponderance of youth, the increasing struggles of urban and rural India, the development-sustainability conflict and the continuing problems of poverty related malnutrition together throw up challenges that require great resilience in administration and delivery. IIPA takes the reality of Governance in transition into consideration in all its skill-development, research, and knowledge management activities.

### *The Institute's objectives are:*

- To promote and provide for the study of Public Administration and economic and political science with special reference to public administration and the machinery of government and educational purposes incidental thereto.
- To undertake, organise and facilitate study courses, conferences and lectures and research in matters relating to public administration and the machinery of government.

- To undertake and provide for the publication of journals and of research papers and books to impart training in and promote the study of public administration.
- To establish and maintain libraries and information services to facilitate the study of public administration and spreading information in regard thereto.
- To constitute or cause to be constituted Regional Branches at convenient centers in India to promote the objects of the society.
- To cooperate with approved institutions and bodies for the purposes of helping the cause of public administration.

### *Activities*

The activities of the Institute are organized in four inter-related areas of Research, Training, Advisory Services and Dissemination of Information. While the Institute undertakes research studies on current issues of public concern on its own initiative, it also conducts research in response to specific organizational need to find solutions in difficult decision-making areas. These are normally sponsored projects of Government and national / international organizations. IIPA offers advisory services in operational areas and provides the necessary hand-holding in implementation of schemes, programmes and project in both Government and private sectors. It conducts a large number of long and short-duration training programmes. Besides the Indian Journal of Public Administration, Nagarlok and Lok Prashashan journals, the Institute also periodically publishes a bibliographic journal Documentation in Public Administration and a monthly Newsletter.

### *Faculty*

The Institute has a distinguished permanent faculty that has experience and expertise in all areas of administrative studies, political science, economics, administrative law, management, behavioural science, habitat and urban development, rural development, sociology, policy science, environment, and information technology. Faculty members of the Institute are avid authors, researchers and trainers who keep themselves abreast of the changing requirements of administrative challenges.

### *Institutional Requirements*

The nominations for the courses sponsored by Department of Personnel and Training (DoP&T) and conducted by the Institute are invited by the Department of Personnel and Training, Ministry of Personnel, Public Grievances and Pensions, Government of India. Nominations for the fee-based courses of the Institute and courses organized by its twelve centres are invited by the Institute in respect of each programme. The participant/s should report for training only after getting confirmation by the Institute that their nomination has been accepted. Institute rules require that course fees are sent through Cheques/Demand Drafts, drawn in favour of the Director, Indian Institute of Public Administration, New Delhi, which should invariably be sent in advance along with the nomination/s for the concerned programme/s. Most training programmes are meant for in-service personnel only, viz., Officers from Central Ministries/Departments

including Armed Forces; State Governments; Public Sector/State Enterprises and Departments of Local Self Governments and faculty of universities, colleges and institutes. IIPA also conducts workshops, skill-development interaction and seminars for Civil Society and the public on topical Governance related issues. Certificates of participation are invariably given at the end of all programmes. For further information about training activities/course, write to the respective Programme Coordinator(s), the coordinator (Training) or the Deputy Registrar (Academic Services), IIPA, Indraprastha Estate, Ring Road, New Delhi – 110002.

### Network & Collaboration

With a membership over 11,000 including about 100 overseas, the IIPA has a nation-wide network of 23 regional branches and 44 local branches, which provide exchange of ideas on current trends and practice in public administration to public servants, academics, and students. The Institute is one of the founder members of the Eastern Regional Organization for Public Administration (EROPA). It works in association with the universities, industry associations advanced research institutes, training centres and government departments in India. The Institute also collaborates with the Ecole National d' Administration, France, Korea Institute of Public Administration, Government of Mauritius, Government of Argentina, the Bangladesh Public Administration Training Centre (BPATC), Party School of the Central Committee of the Communist Party, People's Republic of China. Of late there are new windows of cooperation opening with Vietnam, the GIZ and the Potsdam University of Germany.

### Location

The IIPA is located at Indraprastha Estate, Ring Road, New Delhi, opposite Indira Gandhi Indoor Stadium at a distance of about 30 kms. from the Indira Gandhi International Airport, 5 km. from New Delhi Railway Station, 6 km. from Old Delhi Railway Station, 6 km. from Hazrat Nizamuddin Railway Station and 4 km, from the Inter State Bus Terminal.

### Campus

The Institute is located in the heart of Delhi in a sprawling seven acres of greenery. It has a conference hall and several lecture halls, all equipped with updated teaching aids and communication facilities, a computer centre with the latest hardware and relevant softwares, a library rich in collection and subscription and an auditorium with a seating capacity of 500.

**Introduction**

Governments and organizations across the globe are overloaded with huge repositories of data with important information and knowledge buried in it. They are facing the data explosion problem: drowning in data but starving for knowledge: more data but less understanding. Government officials require understanding or making sense of data. Analytics has become vital for policymakers across departments and ministries and has become a major enabler. The term "analytics" deals with how to obtain, store, analyze, visualize and present data. Improvements in data acquisition technologies and reduction in data storage cost but making sense of collected data and leading to data-driven decisions is the key. The knowledge or insights by data empower policymakers in taking proactive decisions, managing risky projects and effective use of limited resources. This program will equip the participants with the concepts and techniques of data analytics as well as policy applications. The program will also focus on how to use these techniques in practical situations to enhance decision-making.
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**Objectives**

The objectives of the program are to

- To introduce the participants the concepts of data analytics, and its ecosystem for gaining insights for policy and implementation.
- To help participants consider the organization's capability to analyze, and use data for gaining citizens insights.
- To gain an understanding of various techniques for analytics: Descriptive, diagnostic, predictive and visualization techniques for policy planning and implementation risk management
- To get exposure to leading data analytics software such as MS EXCEL, SPSS, ATLAS-TI, and other popular analytics applications
- To appraise the participants about technical, financial and environment risk associated with the projects.

**Program Coverage**

This course primarily discusses concepts of data analytics, the technologies required, its public policy applications and approaches towards guiding government decisions using analytics. *This course does not cover the micro details of mathematics, algorithms, and programming.* It is designed for policymakers, bureaucrats or executives of any government to make sense of data and to make informed and data-driven decisions.

- Basics of data analytics.

- Basics of various techniques for analytics: Descriptive, diagnostic, predictive and visualization techniques

- Application of techniques such as forecasting, prediction, churn modeling, clustering, association rules, decision tree in different industry sectors.

- Risk Analysis - Dealing with Uncertainty in Projects

- Challenges in Project Implementation Planning and Implementation

**Target Group**

Persons engaged in implementation of projects in infrastructural sectors, technology and other such areas; like projects related to power plants, fertilizer plants, irrigation projects, industrial units, major replacement and reconditioning jobs; other large and small projects and time bound programmes; persons involved in planning and monitoring of projects and those in government, financial institutions, and other agencies coordinating implementation of various projects from Public Sector Executives (State and Central).

**Dates**
**September 04-17, 2024**