Datastat Research
Building Capacity in Training and Research

# DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

MONITORING AND EVALUATION

# GIS-Enabled Monitoring Dashboards Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

## PROGRAM SPECIFICATIONS & HIGHLIGHTS

**DURATION**
**5 Days Practical Hands-on**

**DELIVERY MODES**
**In-Person Class & Live Virtual**

**CERTIFICATION**
**Accredited Certificate of Completion**

**INTAKES / DATES**
**Multiple Cohort Schedules Included**

PREPARED FOR:

**Valued Participant**

Email: training@datastatresearch.org | Issued: November 21, 2026

**Academic & Professional Training Year: 2026**

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# GIS-Enabled Monitoring Dashboards Training Course

**Monitoring and Evaluation • 5 Days Intensive • Accredited Certification**

## Course Overview

GIS-Enabled Monitoring Dashboards Training Course equips professionals with the skills to integrate GIS technology with real-time monitoring dashboards, enabling actionable insights for program management, resource allocation, and impact evaluation.

### Key Skills & Software Tools Covered

Spatial data mapping • dashboard design • real-time data visualization • trend analysis

## Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

| TRAINING DATES | LOCATION / VENUE | FORMAT / DURATION | INVESTMENT (FEE) |
|---|---|---|---|
| **12 Jan 2026 – 16 Jan 2026** | Nairobi | Classroom / 5d | **$1,500 USD / KES 110,000** |
| **12 Jan 2026 – 16 Jan 2026** | Kigali | Classroom / 5d | **$3,000 USD / KES 90,000** |
| **12 Jan 2026 – 16 Jan 2026** | Dubai | Classroom / 5d | **$5,000 USD / KES 90,000** |
| **12 Jan 2026 – 16 Jan 2026** | Cape Town | Classroom / 5d | **$4,500 USD / KES 90,000** |
| **12 Jan 2026 – 16 Jan 2026** | Addis Ababa | Classroom / 5d | **$3,000 USD / KES 90,000** |
| **12 Jan 2026 – 16 Jan 2026** | Singapore | Classroom / 5d | **$5,000 USD / KES 90,000** |
| **12 Jan 2026 – 16 Jan 2026** | Istanbul | Classroom / 5d | **$5,000 USD / KES 90,000** |
| **12 Jan 2026 – 16 Jan 2026** | Bangkok | Classroom / 5d | **$5,000 USD / KES 90,000** |
| **12 Jan 2026 – 16 Jan 2026** | Accra | Classroom / 5d | **$4,000 USD / KES 90,000** |
| **19 Jan 2026 – 23 Jan 2026** | Nairobi | Classroom / 5d | **$1,500 USD / KES 110,000** |
| **19 Jan 2026 – 23 Jan 2026** | Kigali | Classroom / 5d | **$3,000 USD / KES 90,000** |
| **19 Jan 2026 – 23 Jan 2026** | Dubai | Classroom / 5d | **$5,000 USD / KES 90,000** |

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

## Course Curriculum & Modules

**GIS-Enabled Monitoring Dashboards Training Course**

**Introduction**

**Geospatial Information Systems (GIS) have revolutionized the way organizations monitor, analyze, and visualize spatial data for decision-making. GIS-Enabled Monitoring Dashboards Training Course equips professionals with the skills to integrate GIS technology with real-time monitoring dashboards, enabling actionable insights for program management, resource allocation, and impact evaluation. Participants will gain hands-on experience in designing interactive dashboards that consolidate spatial and non-spatial data, providing a comprehensive view of trends, risks, and performance indicators. This course emphasizes data-driven decision-making, spatial analytics, real-time visualization, and advanced GIS applications, positioning learners at the forefront of innovative monitoring solutions.**

### Through this course, learners will develop the capacity to transform complex datasets into intuitive, user-friendly dashboards that inform

Course Duration

5 days

### Course Objectives

• Master GIS integration with real-time monitoring dashboards.

- Develop skills in spatial data visualization for evidence-based decision-making.
- Analyze geospatial patterns and trends to inform program interventions.
- Design interactive dashboards for monitoring performance indicators.
- Enhance data storytelling through GIS-enabled visualizations.
- Apply spatial analytics to optimize resource allocation.
- Leverage GIS for predictive monitoring and risk assessment.
- Interpret multi-layered datasets for strategic planning.
- Build automated reporting systems using GIS dashboards.
- Implement monitoring frameworks that combine GIS and KPIs.
- Evaluate program impact using geospatial insights.
- Integrate GIS dashboards with mobile and web platforms.
- Apply real-world case studies to improve monitoring and evaluation.

Target Audience

- Monitoring & Evaluation Specialists
- GIS Analysts and Geospatial Professionals
- Data Scientists and Data Analysts
- Program Managers and Coordinators
- Public Sector Planners and Policy Analysts
- NGOs and Development Practitioners
- Urban Planners and Environmental Managers
- IT Professionals in Data Visualization

Course Modules

### Module 1: Introduction to GIS-Enabled Dashboards

- Overview of GIS and dashboard technologies
- Role of GIS in monitoring programs
- Types of GIS-enabled dashboards
- Key performance indicators (KPIs) for spatial data
- Case Study: GIS dashboards for public health programs

### Module 2: Spatial Data Collection and Management

- Sources of geospatial data (satellite, surveys, IoT)
- Data quality and validation techniques
- Database management for GIS dashboards
- Handling large-scale spatial datasets
- Case Study: GIS data management for urban planning

### Module 3: GIS Software Tools for Dashboard Development

- Introduction to ArcGIS, QGIS, and open-source alternatives
- Integrating GIS with Power BI, Tableau, and Google Data Studio
- Layer creation and map customization
- Spatial analysis functions
- Case Study: GIS dashboard for environmental monitoring

### Module 4: Designing Interactive Dashboards

- Dashboard layout and user experience (UX) principles
- Data visualization best practices
- Embedding charts, maps, and KPIs
- Customizing filters and interactive features
- Case Study: Designing a multi-sector monitoring dashboard

### Module 5: Data Analytics for GIS Dashboards

- Spatial trend analysis and hotspot detection

- Predictive modeling and scenario analysis
- Statistical tools for GIS analytics
- Combining spatial and non-spatial data
- Case Study: GIS analytics for disaster response

### Module 6: Real-Time Monitoring and Automation

- Integrating IoT and live data feeds
- Setting up automated alerts and notifications
- Scheduling updates for dashboards
- Cloud-based solutions for real-time monitoring
- Case Study: Real-time GIS dashboard for disease surveillance

### Module 7: Reporting, Interpretation, and Decision Support

- Translating dashboards into actionable insights
- Storytelling with geospatial data
- Generating automated reports and visual summaries
- Presenting dashboards to stakeholders
- Case Study: GIS dashboards informing policy decisions

### Module 8: Advanced Applications and Emerging Trends

- Mobile GIS dashboards and field data collection
- AI and machine learning in GIS analytics
- Smart city monitoring solutions
- Future trends in geospatial monitoring dashboards
- Case Study: AI-powered GIS dashboards for sustainable development

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

## Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

## How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/gis-enabled-monitoring-dashboards-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.